Francisco de la companya della companya della companya de la companya de la companya della compa

=> fil reg

FILE 'REGISTRY' ENTERED AT 08:59:26 ON 24 AUG 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3 DICTIONARY FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

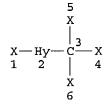
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> d sta que 135

L13 990983 SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2
L15 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
GGCAT IS MCY UNS AT 2
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE

L17 10308 SEA FILE=REGISTRY SUB=L13 SSS FUL L15 L19 STR

NODE ATTRIBUTES:

CONNECT IS M1 RC AT 3
CONNECT IS M1 RC AT 4
CONNECT IS M1 RC AT 11
DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 2
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E5 C E1 N AT

GRAPH ATTRIBUTES:

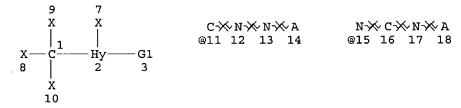
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L21 7865 SEA FILE=REGISTRY SUB=L17 CSS FUL L19

L23 STR



 $N \times C \times C \times A$ $N \times N \times C \times A$ $C \times O \times C \times A$ $C \times N \times C \times A$ @19 20 21 22 @23 24 25 26 @27 28 29 30 @31 32 33 34

0 ★ N ★ C ★ A C ★ C ★ C ★ A @35 36 37 38 @39 40 41 42

VAR G1=11/15/19/23/27/31/35/39

NODE ATTRIBUTES:

NSPEC IS R AT14 AT 18 NSPEC IS R IS R 22 NSPEC ATIS R AT26 NSPEC IS R AT30 NSPEC IS R 34 NSPEC ATIS R 38 ATNSPEC IS R AT 42 NSPEC DEFAULT MLEVEL IS ATOM GGCAT IS MCY UNS AT DEFAULT ECLEVEL IS LIMITED ECOUNT IS E5 C E1 N AT

GRAPH ATTRIBUTES:

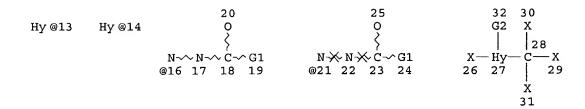
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

L25 3405 SEA FILE=REGISTRY SUB=L21 SSS FUL L23

L32 STR



37 0 $N \times N \times C \cdot \langle \rangle \wedge A$ @33 34 35

VAR G1=13/14VAR G2=16/21/33NODE ATTRIBUTES: NSPEC IS R AΤ 36 CONNECT IS E1 RC AT 20 CONNECT IS E1 RC AT 25 RC AT CONNECT IS E1 DEFAULT MLEVEL IS ATOM MLEVEL IS CLASS AT 36 GGCAT IS MCY UNS AT 27 DEFAULT ECLEVEL IS LIMITED ECOUNT IS UNLIMITED ATECOUNT IS M1 O AT ECOUNT IS M1 N AT14 ECOUNT IS E5 C E1 N AT 27

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

84 SEA FILE=REGISTRY SUB=L25 SSS FUL L32 L35

100.0% PROCESSED 283 ITERATIONS

SEARCH TIME: 00.00.01

84 ANSWERS

=> d sta que 145

214 SEA FILE=REGISTRY ABB=ON PLU=ON (116389-04-9/BI OR 118-91-2/B L11I OR 118386-83-7/BI OR 175277-50-6/BI OR 175277-52-8/BI OR 1777-82-8/BI OR 276875-21-9/BI OR 3034-19-3/BI OR 326476-24-8/B I OR 326807-13-0/BI OR 326807-14-1/BI OR 326807-15-2/BI OR 326807-16-3/BI OR 326807-17-4/BI OR 326807-18-5/BI OR 326807-19 -6/BI OR 326807-20-9/BI OR 326807-21-0/BI OR 326807-22-1/BI OR 326807-23-2/BI OR 326807-24-3/BI OR 326807-25-4/BI OR 326807-26 -5/BI OR 326807-27-6/BI OR 326807-28-7/BI OR 326807-29-8/BI OR 326807-30-1/BI OR 326807-31-2/BI OR 326807-32-3/BI OR 326807-33 -4/BI OR 326807-34-5/BI OR 326807-35-6/BI OR 326807-36-7/BI OR 326807-37-8/BI OR 326807-38-9/BI OR 326807-39-0/BI OR 326807-40 -3/BI OR 326807-41-4/BI OR 326807-42-5/BI OR 326807-43-6/BI OR 326807-44-7/BI OR 326807-45-8/BI OR 326807-46-9/BI OR 326807-47 -0/BI OR 326807-48-1/BI OR 326807-49-2/BI OR 326807-50-5/BI OR 326807-51-6/BI OR 326807-52-7/BI OR 326807-53-8/BI OR 326807-54 -9/BI OR 326807-55-0/BI OR 326807-56-1/BI OR 326807-57-2/BI OR

326807-58-3/BI OR 326807-59-4/BI OR 326807-60-7/BI OR 326807-61

-8/BI OR 326807-62-9/BI OR 326807-63-0/BI OR 326807-64-1/BI OR 326807-65-2/BI OR 326807-66-3/BI OR 326807-67-4/BI OR 326807-68-5/BI OR 326807-69-6/BI OR 326807-70-9/BI OR 326807-71-0/BI OR 326807-72-1/BI OR 326807-73-2/BI OR 326807-74-3/BI OR 326807-75-4/BI OR 326807-76-5/BI OR 326807-77-6/BI OR 326807-78-7/BI OR 326807-79-8/BI OR 326807-80-1/BI OR 326807-81-2/BI OR 326807-82-3/BI OR 326807-83-4/BI OR 326807-84-5/BI OR 326807-85-6/BI OR 326807-86-7/BI OR 326807-87-8/BI OR 326807-89-9/BI OR 326807-90-3/BI OR 326807-91-4/BI OR 326807-92-5/BI OR 326807-93-6/BI OR 326807-94-7/BI OR 326807-95-8/BI OR 326807-96-9/BI OR 326807-97-0/BI OR 326807-98-1/BI OR 326807-99-2/BI OR 326808-00-8/BI OR 326808-01-9/BI OR 326808-02-0/BI OR 326808-03

L13 990983 SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2
L14 193 SEA FILE=REGISTRY ABB=ON PLU=ON L11 AND L13
L15 STR

5 X Ну— С— X

1

2

6

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS MCY UNS AT 2
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E5 C E1 N AT 2

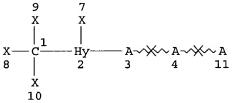
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE

L17 10308 SEA FILE=REGISTRY SUB=L13 SSS FUL L15

L19 STR



NODE ATTRIBUTES:

CONNECT IS M1 RC AT 3
CONNECT IS M1 RC AT 4
CONNECT IS M1 RC AT 11
DEFAULT MLEVEL IS ATOM
GGCAT IS MCY UNS AT 2
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L21 7865 SEA FILE=REGISTRY SUB=L17 CSS FUL L19

L23 STR

 $0 \times N \times C \times A$ $C \times C \times C \times A$ @35 36 37 38 @39 40 41 42

VAR G1=11/15/19/23/27/31/35/39

NODE ATTRIBUTES:

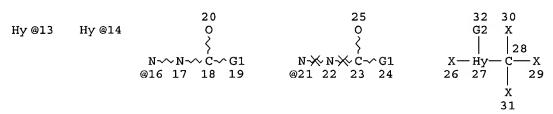
ΑT NSPEC IS R 14 ATIS R NSPEC 18 IS R NSPEC AT22 IS R ΑT NSPEC 26 NSPEC IS R AT30 ΑT NSPEC IS R 34 NSPEC IS R AT 38 IS R AT 42 NSPEC DEFAULT MLEVEL IS ATOM GGCAT IS MCY UNS AT DEFAULT ECLEVEL IS LIMITED ECOUNT IS E5 C E1 N AT

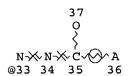
GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

L25 3405 SEA FILE=REGISTRY SUB=L21 SSS FUL L23

L32 STI





VAR G1=13/14
VAR G2=16/21/33
NODE ATTRIBUTES:
NSPEC IS R AT 36
CONNECT IS E1 RC AT 20
CONNECT IS E1 RC AT 25
CONNECT IS E1 RC AT 37

DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 36
GGCAT IS MCY UNS AT 27
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS UNLIMITED AT 36
ECOUNT IS M1 O AT 13
ECOUNT IS M1 N AT 14
ECOUNT IS E5 C E1 N AT 27

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

L35 84 SEA FILE=REGISTRY SUB=L25 SSS FUL L32 13 SEA FILE=REGISTRY ABB=ON PLU=ON L35 AND (C15H9CLF3N3O3 OR L36 C21H19CLF3N5O3 OR C19H16CLF3N4O2 OR C17H12CLF3N4O2 OR C16H13CLF 3N3O2 OR C17H11CLF3N3O3 OR C19H12CLF3N4O2 OR C22H14BRCLF3N3O3 OR C25H17CLF3N3O3 OR C15H10CLF3N4O2 OR C18H13CLF3N3O3 OR C15H8CLF3N4O4 OR C15H13CLF3N3O4) 3321 SEA FILE=REGISTRY ABB=ON PLU=ON L25 NOT L35 L37 5 SEA FILE=REGISTRY ABB=ON PLU=ON L36 AND (C21H19CLF3N5O3 OR L38 C19H16CLF3N4O2 OR C17H12CLF3N4O2 OR C17H11CLF3N3O3 OR C18H13CLF 3N3O3) L39 8 SEA FILE=REGISTRY ABB=ON PLU=ON L36 NOT L38 169 SEA FILE=REGISTRY ABB=ON PLU=ON L11 AND L25 L4024 SEA FILE=REGISTRY ABB=ON PLU=ON L14 NOT L40
22 SEA FILE=REGISTRY ABB=ON PLU=ON L41 NOT C13H9CL3N2O L41 L42 L43 3153 SEA FILE=REGISTRY ABB=ON PLU=ON L37 NOT (L39 OR L40 OR L42) L44 STR Х Х C N N N C Y N C N C Y @11 12 13 14 @15 16 17 18 - Hy--- G1 3 8 2 X 10

N~~C~~Cy N~~N~~C~Cy C~~Cy C~~Cy C~~Cy @19 20 21 22 @23 24 25 26 @27 28 29 30 @31 32 33 34

VAR G1=11/15/19/23/27/31/35/39 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM GGCAT IS MCY UNS AT 2 DEFAULT ECLEVEL IS LIMITED ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

L45 522 SEA FILE=REGISTRY SUB=L43 SSS FUL L44

100.0% PROCESSED 3153 ITERATIONS

522 ANSWERS

SEARCH TIME: 00.00.01

=> d sta que 149

L11

214 SEA FILE=REGISTRY ABB=ON PLU=ON (116389-04-9/BI OR 118-91-2/B I OR 118386-83-7/BI OR 175277-50-6/BI OR 175277-52-8/BI OR 1777-82-8/BI OR 276875-21-9/BI OR 3034-19-3/BI OR 326476-24-8/B I OR 326807-13-0/BI OR 326807-14-1/BI OR 326807-15-2/BI OR 326807-16-3/BI OR 326807-17-4/BI OR 326807-18-5/BI OR 326807-19 -6/BI OR 326807-20-9/BI OR 326807-21-0/BI OR 326807-22-1/BI OR 326807-23-2/BI OR 326807-24-3/BI OR 326807-25-4/BI OR 326807-26 -5/BI OR 326807-27-6/BI OR 326807-28-7/BI OR 326807-29-8/BI OR 326807-30-1/BI OR 326807-31-2/BI OR 326807-32-3/BI OR 326807-33 -4/BI OR 326807-34-5/BI OR 326807-35-6/BI OR 326807-36-7/BI OR 326807-37-8/BI OR 326807-38-9/BI OR 326807-39-0/BI OR 326807-40 -3/BI OR 326807-41-4/BI OR 326807-42-5/BI OR 326807-43-6/BI OR 326807-44-7/BI OR 326807-45-8/BI OR 326807-46-9/BI OR 326807-47 -0/BI OR 326807-48-1/BI OR 326807-49-2/BI OR 326807-50-5/BI OR 326807-51-6/BI OR 326807-52-7/BI OR 326807-53-8/BI OR 326807-54 -9/BI OR 326807-55-0/BI OR 326807-56-1/BI OR 326807-57-2/BI OR 326807-58-3/BI OR 326807-59-4/BI OR 326807-60-7/BI OR 326807-61 -8/BI OR 326807-62-9/BI OR 326807-63-0/BI OR 326807-64-1/BI OR 326807-65-2/BI OR 326807-66-3/BI OR 326807-67-4/BI OR 326807-68 -5/BI OR 326807-69-6/BI OR 326807-70-9/BI OR 326807-71-0/BI OR 326807-72-1/BI OR 326807-73-2/BI OR 326807-74-3/BI OR 326807-75 -4/BI OR 326807-76-5/BI OR 326807-77-6/BI OR 326807-78-7/BI OR 326807-79-8/BI OR 326807-80-1/BI OR 326807-81-2/BI OR 326807-82 -3/BI OR 326807-83-4/BI OR 326807-84-5/BI OR 326807-85-6/BI OR 326807-86-7/BI OR 326807-87-8/BI OR 326807-88-9/BI OR 326807-89 -0/BI OR 326807-90-3/BI OR 326807-91-4/BI OR 326807-92-5/BI OR 326807-93-6/BI OR 326807-94-7/BI OR 326807-95-8/BI OR 326807-96 -9/BI OR 326807-97-0/BI OR 326807-98-1/BI OR 326807-99-2/BI OR 326808-00-8/BI OR 326808-01-9/BI OR 326808-02-0/BI OR 326808-03

L13 990983 SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2
L14 193 SEA FILE=REGISTRY ABB=ON PLU=ON L11 AND L13
L15 STR

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS MCY UNS AT 2
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE

L17 10308 SEA FILE=REGISTRY SUB=L13 SSS FUL L15

L19 STR

NODE ATTRIBUTES:

CONNECT IS M1 RC AT 3
CONNECT IS M1 RC AT 4
CONNECT IS M1 RC AT 11
DEFAULT MLEVEL IS ATOM
GGCAT IS MCY UNS AT 2
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E5 C E1 N AT

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L21 7865 SEA FILE=REGISTRY SUB=L17 CSS FUL L19 L23 STR



 $N \times C \times C \times A$ $N \times N \times C \times A$ $C \times O \times C \times A$ $C \times N \times C \times A$ @19 20 21 22 @23 24 25 26 @27 28 29 30 @31 32 33 34

VAR G1=11/15/19/23/27/31/35/39

NODE ATTRIBUTES:

NSPEC IS R 14 NSPEC IS R ΑT 18 NSPEC IS R AT22 NSPEC IS R AT26 NSPEC IS R AT30 NSPEC IS R AT34 NSPEC IS R AT38 NSPEC IS R AT42 DEFAULT MLEVEL IS ATOM GGCAT IS MCY UNS AT DEFAULT ECLEVEL IS LIMITED ECOUNT IS E5 C E1 N AT

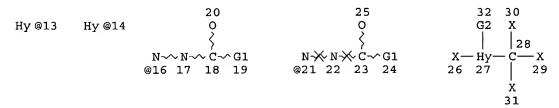
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 39

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STEREO ATTRIBUTES: NONE
```

L25 3405 SEA FILE=REGISTRY SUB=L21 SSS FUL L23

L32



VAR G1=13/14 VAR G2=16/21/33NODE ATTRIBUTES: NSPEC IS R AT 36 CONNECT IS E1 RC AT 20 CONNECT IS E1 RC AT 25 CONNECT IS E1 RC AT 37 DEFAULT MLEVEL IS ATOM MLEVEL IS CLASS AT 36 GGCAT IS MCY UNS AT 27 DEFAULT ECLEVEL IS LIMITED ECOUNT IS UNLIMITED AT 36 ECOUNT IS M1 O AT 13 ECOUNT IS M1 N AT 14 ECOUNT IS E5 C E1 N AT 27

GRAPH ATTRIBUTES:

L35

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

L36	13	SEA FILE=REGISTRY ABB=ON PLU=ON L35 AND (C15H9CLF3N3O3 OR
		C21H19CLF3N5O3 OR C19H16CLF3N4O2 OR C17H12CLF3N4O2 OR C16H13CLF
		3N3O2 OR C17H11CLF3N3O3 OR C19H12CLF3N4O2 OR C22H14BRCLF3N3O3
		OR C25H17CLF3N3O3 OR C15H10CLF3N4O2 OR C18H13CLF3N3O3 OR
		C15H8CLF3N4O4 OR C15H13CLF3N3O4)
L37	3321	SEA FILE=REGISTRY ABB=ON PLU=ON L25 NOT L35
L38	5	SEA FILE=REGISTRY ABB=ON PLU=ON L36 AND (C21H19CLF3N5O3 OR
		C19H16CLF3N4O2 OR C17H12CLF3N4O2 OR C17H11CLF3N3O3 OR C18H13CLF
		3N3O3)
L39	8	SEA FILE=REGISTRY ABB=ON PLU=ON L36 NOT L38
L40	169	SEA FILE=REGISTRY ABB=ON PLU=ON L11 AND L25
L41	24	SEA FILE=REGISTRY ABB=ON PLU=ON L14 NOT L40
L42	22	SEA FILE=REGISTRY ABB=ON PLU=ON L41 NOT C13H9CL3N2O
L43	3153	SEA FILE=REGISTRY ABB=ON PLU=ON L37 NOT (L39 OR L40 OR L42)
L44		STR

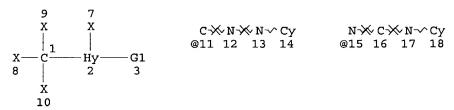
84 SEA FILE=REGISTRY SUB=L25 SSS FUL L32

VAR G1=11/15/19/23/27/31/35/39 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM GGCAT IS MCY UNS AT 2 DEFAULT ECLEVEL IS LIMITED ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

L45 522 SEA FILE=REGISTRY SUB=L43 SSS FUL L44 L46 STR



VAR G1=11/15/19/23/27/31/35/39 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM GGCAT IS MCY UNS AT 2 DEFAULT ECLEVEL IS LIMITED ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

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2631 SEA FILE=REGISTRY ABB=ON PLU=ON L43 NOT L45
L47
            87 SEA FILE=REGISTRY SUB=L47 SSS FUL L46
L48
           2544 SEA FILE=REGISTRY ABB=ON PLU=ON L47 NOT L48
L49
=> d his
     (FILE 'HOME' ENTERED AT 07:36:02 ON 24 AUG 2004)
                DEL HIS
     FILE 'HCAPLUS' ENTERED AT 07:38:16 ON 24 AUG 2004
L1
              1 S (WO2000-EP8268 OR GB99-19558)/AP, PRN
                E COOKE T/AU
             76 S E3-E12, E34, E35
L2
                E HARDY D/AU
L3
            218 S E3-E18, E23-E34
                E MOLONEY B/AU
             16 S E5-E7
L4
                E OMAHONY/AU
                E O MAHONY/AU
L5
             41 S E59, E61, E66, E67
                E EPTTETT M/AU
                E PETTETT M/AU
L6
              6 S E4-E6
                E PATEL G/AU
L7
            423 S E3-E19
                E PATEL GITA/AU
L8
             13 S E3-E5
                E SCHNATTERER S/AU
L9
             17 S E4
                E AVENTI/PA,CS
           2162 S E4 OR AVENTIS?/PA,CS
L10
                SEL RN L1
     FILE 'REGISTRY' ENTERED AT 07:41:45 ON 24 AUG 2004
            214 S E1-E214
L11
            200 S L11 AND NC5/ES
L12
         990983 S 46.156.30/RID AND NR>=2
L13
            193 S L11 AND L13
L14
                STR
L15
             50 S L15 SAM SUB=L13
L16
          10308 S L15 FUL SUB=L13
L17
                SAV TEMP L17 QAZI049/A
L18
                STR L15
                STR L18
L19
L20
             50 S L19 CSS SAM SUB=L17
           7865 S L19 CSS FUL SUB=L17
L21
                SAV TEMP L21 QAZI049A/A
L22
                STR L19
L23
                STR L22
L24
             50 S L23 SAM SUB=L21
L25
           3405 S L23 FUL SUB=L21
                SAV TEMP L25 OAZI049B/A
L26
                STR L19
                STR L26
L27
L28
              0 S L26 SAM SUB=L25
              0 S L26 FUL SUB=L25
L29
                SAV L29 QAZI049C/A
              0 S L26 SAM SUB=L21
L30
              0 S L26 FUL SUB=L21
L31
                SAV L31 QAZI049D/A
L32
                STR L27
```

7 S L32 SAM SUB=L21

L33

```
L34
              7 S L32 SAM SUB=L25
L35
             84 S L32 FUL SUB=L25
                SAV L35 OAZIO49E/A
             13 S L35 AND (C15H9CLF3N3O3 OR C21H19CLF3N5O3 OR C19H16CLF3N4O2 OR
L36
L37
           3321 S L25 NOT L35
             5 S L36 AND (C21H19CLF3N5O3 OR C19H16CLF3N4O2 OR C17H12CLF3N4O2 O
L38
L39
              8 S L36 NOT L38
L40
            169 S L11 AND L25
L41
             24 S L14 NOT L40
L42
            22 S L41 NOT C13H9CL3N2O
L43
           3153 S L37 NOT L39, L40, L42
L44
                STR L23
L45
            522 S L44 FUL SUB=L43
                SAV L45 OAZIO49F/A
L46
                STR L44
L47
           2631 S L43 NOT L45
             87 S L46 FUL SUB=L47
L48
                SAV L48 QAZI049G/A
L49
           2544 S L47 NOT L48
     FILE 'HCAPLUS' ENTERED AT 08:41:21 ON 24 AUG 2004
L50
             4 S L40 OR L42
L51
             75 S L39, L45, L48
L52
            403 S L49
L53
              2 S L50 AND L1-L10
              3 S L50, L53 AND (PD<=20000811 OR PRD<=20000811 OR AD<=20000811)
L54
             50 S L51 AND (PD<=20000811 OR PRD<=20000811 OR AD<=20000811)
L55
             27 S (L39 OR L45 OR L48) (L) AGR/RL AND L55
L56
L57
             33 S L55 AND AGR?/SC,SX
                E FUNGICID/CT
L58
              7 S E24,E12 AND L55
                E E12+ALL
L59
              1 S E9,E10,E22-E32 AND L55
             6 S E35+OLD, NT, PFT, RT AND L55
L60
             33 S L56-L60
L61
             8 S L61 AND ?FUNG?
L62
             0 S L61 AND ?MYCO?
L63
            68 S LEPTOSPH? NODOR?
L64
             5 S L NODOR?
L65
            458 S LEPTOSPH?
L66
                E LEPTOSPH/CT
            315 S E4-E56
L67
                E E4+ALL
            310 S E5+NT
L68
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            301 S L52 AND (PD<=20000811 OR PRD<=20000811 OR AD<=20000811)
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L71
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             29 S L70 AND ?FUNG?
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L74
             16 S L70 AND E35, E24
                E E12+ALL
             14 S L70 AND E8, E22-E32
L75
L76
             10 S L70 AND E35+OLD, NT, PFT, RT
L77
            13 S L71 AND L73-L76
L78
            16 S L73-L76 NOT L77
L79
            11 S L78 AND AGR?/SC,SX
           166 S L70 AND AGR?/SC,SX
L80
            24 S L80 AND L73-L79
L81
            29 S L69, L62, L77, L79, L81
L82
L83
             1 S L82 AND NITROGEN COMPOUNDS/TI
             1 S L82 AND PYRIDYLMETHYLAMINE/TI
L84
L85
             27 S L82 NOT L83, L84
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FILE 'REGISTRY' ENTERED AT 08:59:26 ON 24 AUG 2004

=> => fil hcaplus FILE 'HCAPLUS' ENTERED AT 09:06:01 ON 24 AUG 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 24 Aug 2004 VOL 141 ISS 9 FILE LAST UPDATED: 23 Aug 2004 (20040823/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> => d all hitstr 187

L87 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:524419 HCAPLUS

DN 109:124419

ED Entered STN: 14 Oct 1988

- TI Preparation of five-membered heterocycles with three heteroatoms, as pesticides
- IN Luethy, Christoph
- PA Hoffmann-La Roche, F., und Co. A.-G., Switz.
- SO Eur. Pat. Appl., 59 pp. CODEN: EPXXDW

DT Patent

LA German

IC ICM C07D271-10

ICS C07D413-04; C07D249-12; C07D285-12; A01N043-653; A01N043-82

CC 5-4 (Agrochemical Bioregulators)

Section cross-reference(s): 1, 28

FAN	. CNT	1

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	DK 8705709	A	19880602	DK 1987-5709	19871030 <
	ZA 8708811	A	19880727	ZA 1987-8811	19871124 <
	HU 45850	A2	19880928	HU 1987-5338	19871127 <
	JP 63154678	A2	19880627	JP 1987-303067	19871130 <
	BR 8706464	A	19880712	BR 1987-6464	19871130 <
	AU 8782036	A1	19880602	AU 1987-82036	19871201 <
	AU 602372	B2	19901011		
	US 4943583	A	19900724	US 1987-126804	19871201 <
PRAI	CH 1986-4785		19861201	<	
	CH 1987-3571		19870916	<	
CLASS	g				

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

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ICM
                         C07D271-10
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                         C07D413-04; C07D249-12; C07D285-12; A01N043-653;
                         A01N043-82
os
     MARPAT 109:124419
GΙ
 R^{1}N-N
     The title heterocycles I [R1 = (un) substituted Ph or pyridyl; R2 = substituted Ph; X = O, S, NR3, Y = S, O; R3 = Me, halomethyl, 1-propynyl]
AΒ
     are prepared as insecticides and acaricides (no data). A mixture of
     2-chloro-6-fluoro-N'-(\alpha,\alpha,\alpha-trifluoro-o-
     tolyl)benzhydrazide, phosgene and toluene was refluxed for 16 h to give
     5-(2-chloro-6-fluorophenyl)-3-(\alpha, \alpha, \alpha-trifluoro-o-tolyl)-
     1,3,4-oxadiazol-2(3H)one. An emulsion concentrate comprised I 250,
     N-methyl-2-pyrrolidone 400, Ankopal N-100 75, and Ca
     dodecylbenzenesulfonate 25 g and Solvesso-100 to 1L.
ST
     pesticide oxadiazolone triazolone thiadiazolone prepn
IT
     Pesticides
         (heterocycles with 3-heteroatoms, preparation of)
     75-44-5, Phosgene 463-71-8, Thiophosgene 503-38-8, Trichloromethyl
IT
                     541-41-3, Ethyl chloroformate
     chloroformate
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (cyclization by, of benzhydrazide derivative)
                     107511-09-1P
                                     107511-52-4P
                                                     116370-09-3P
                                                                     116370-10-6P
IT
     107510-93-0P
                     116370-12-8P
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     116370-11-7P
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     116389-11-8P
                     116389-12-9P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
         (preparation and cyclization of)
IT
     116370-10-6P
                     116370-13-9P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
         (preparation and cyclization of, with Et chloroformate)
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IT
     107511-52-4P
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     (Reactant or reagent)
         (preparation and cyclization of, with phosgene)
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     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
         (preparation and cyclization of, with thiophosgene)
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     (Reactant or reagent)
         (preparation and cyclization of, with trichloromethyl chloroformate)
IT
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     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
         (preparation and methylation of)
     116370-14-0P
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(preparation of)

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116369-82-5P
IT
     116369-81-4P
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     116400-41-0P
                    116400-42-1P
     RL: AGR (Agricultural use); BAC (Biological activity or
     effector, except adverse); BSU (Biological study, unclassified); SPN
     (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES
     (Hges)
        (preparation of, as pesticide)
IT
     41052-75-9, 2-Chlorophenylhydrazine hydrochloride
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with chlorofluorobenzoyl chloride)
IT
     79455-63-3, 2-Chloro-6-fluorobenzoyl chloride
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with chlorophenylhydrazine)
IT
     365-34-4, o-Trifluoromethylphenylhydrazine
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with difluorobenzoyl chloride)
IT
     3107-34-4
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with difluorobenzoyl fluoride)
     18063-02-0, 2,6-Difluorobenzoyl chloride
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with trifluoromethylphenylhydrazine)
     13656-41-2, 2,6-Difluorobenzoyl fluoride
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with trifluorotolylhydrazine)
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     116389-04-9P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and cyclization of)
RN
     116389-04-9 HCAPLUS
     Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-
CN
     pyridinyl]hydrazide (9CI) (CA INDEX NAME)
```

1,3,4-Thiadiazol-2(3H)-one, 5-(2-chloro-6-fluorophenyl)-3-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)

RN 116369-98-3 HCAPLUS CN 1,3,4-Oxadiazol-2(3H)-one, 5-(2-chlorophenyl)-3-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)

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=> d all fhitstr tot 188
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BR 2000013369

EP 1204642

Α

A1

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ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
1.88
ΑN
    2001:137193 HCAPLUS
DM
     134:178467
    Entered STN: 25 Feb 2001
ED
TI
    Preparation of pyridine derivatives as phytopathogenic fungicides
IN
    Cooke, Tracey; Hardy, David; Moloney, Brian
    Anthony; O'Mahony, Mary Josephine; Pettett, Michael
    George; Patel, Gita; Schnatterer, Stefan
PA
    Aventis CropScience GmbH, Germany
    PCT Int. Appl., 57 pp.
SO
    CODEN: PIXXD2
DT
    Patent
LA
    English
IC
    ICM C07D213-61
         C07D213-89; C07D405-12; C07D213-77; C07D401-12; C07D213-81;
         C07D213-64; C07D409-12; C07D417-12; C07D498-04; C07D401-06;
         A01N043-40
    27-16 (Heterocyclic Compounds (One Hetero Atom))
    Section cross-reference(s): 5
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    PATENT NO.
                               DATE
                                           APPLICATION NO.
                        KIND
                                                                  DATE
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                               _____
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PΙ
                               20010222
                                           WO 2000-EP8268
    WO 2001012604
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20020507

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BR 2000-13369

EP 2000-954651

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PRAI GB 1999-19558
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CLASS
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                 CLASS
                        PATENT FAMILY CLASSIFICATION CODES
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                        C07D213-61
                 ICS
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                        C07D213-81; C07D213-64; C07D409-12; C07D417-12;
                        C07D498-04; C07D401-06; A01N043-40
OS
     MARPAT 134:178467
GI
```

$$F_3C$$

$$C1$$

$$H$$

$$Me$$

$$F$$

The title compds. A1LA2 [A1 = (un) substituted 2-pyridyl or its N-oxide; Ar2 = (un) substituted heterocyclyl, carbocyclyl; L = a 3-atom linker selected from CHR1NR3CHR2, NR3NR4C:X, C:XNR3CHR1, etc. (wherein A1 is attached to the left hand side of linker L); R1, R2 = CN, NO2, halo, etc.; R3, R4 = CN, NO2, alkyl, etc.; any of R1-R4, together with the interconnecting atoms, can form a 5-6 membered ring with any other R1-R4, or any R1-R4, together with the interconnecting atoms can form a 5-6 membered ring with A2; X = O, S, N(alkyl), etc.], useful as phytopathogenic fungicides, were prepared Thus, reacting 1-(3,4-difluorophenyl)-1-ethanamine with 3-chloro-5- (trifluoromethyl) pyridine-2-carboxaldehyde in the presence of Et3N in CH(OMe)3 followed by addition of NaBH3CN/THF and AcOH afforded the title compound I which showed moderate to total control against Leptosphaeria nodorum at 500 ppm or less.

Ι

ST pyridine prepn agrochem fungicide

IT Fungicides

IT

IT

(agrochem.; preparation of pyridine derivs. as phytopathogenic fungicides) 326807-13-0P 326808-86-0P RL: AGR (Agricultural use): BAC (Biological activity or effector, except

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of pyridine derivs. as phytopathogenic fungicides) 116389-04-9P 326476-24-8P 326807-14-1P 326807-15-2P 326807-16-3P 326807-17-4P

326807-15-2P 326807-16-3P 326807-17-4P 326807-18-5P 326807-19-6P 326807-20-9P 326807-21-0P 326807-25-4P 326807-26-5P 326807-27-6P 326807-25-4P 326807-29-8P 326807-30-1P 326807-31-2P 326807-32-3P 326807-33-4P 326807-34-5P 326807-35-6P 326807-36-7P 326807-37-8P 326807-35-6P 326807-39-0P 326807-40-3P 326807-41-4P 326807-45-8P 326807-45-8P 326807-45-8P 326807-45-8P 326807-55-0P 326807-55-0P

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326812-96-8P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except
adverse); BSU (Biological study, unclassified); SPN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
   (preparation of pyridine derivs. as phytopathogenic fungicides)
86-55-5, 1-Naphthoic acid
                           89-98-5, 2-Chlorobenzaldehyde
                                                            118-91-2,
2-Chlorobenzoic acid
                       608-31-1, 2,6-Dichloroaniline
                                                        614-21-1,
2-Nitroacetophenone
                      1777-82-8, 2,4-Dichlorobenzyl alcohol
2-Nitrophenylhydrazine
                         3886-69-9
                                    4659-45-4, 2,6-Dichlorobenzoyl
          69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine
chloride
70591-20-7, [(Diphenylmethylene)amino]methyl cyanide
                                                       75408-89-8,
                         79456-26-1, 2-Amino-3-chloro-5-
4-Acetylbiphenyl oxime
                         89570-82-1
                                       118386-83-7
                                                     175277-50-6,
trifluoromethylpyridine
3-Chloro-5-trifluoromethylpyridine-2-carboxaldehyde
                                                      175277-52-8,
3-Chloro-2-(chloromethyl)-5-trifluoromethylpyridine
                                                      276875-21-9,
1-(3,4-Difluorophenyl)-1-ethanamine
                                     326809-08-9
                                                    326809-09-0
```

TТ

326809-10-3, 2-(3-Bromo-4-methoxyphenyl)-1H-imidazole

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyridine derivs. as phytopathogenic fungicides)

THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD 30 RE

- (1) Agrevo Uk Ltd; GB 2307177 A 1997 HCAPLUS
- (2) Agrevo Uk Ltd; WO 9907687 A 1999 HCAPLUS
- (3) Anon; PATENT ABSTRACTS OF JAPAN 1983, V007 (114), PC-166 (4) Anon; PATENT ABSTRACTS OF JAPAN 1989, V013 (379), PC-628 (5) Anon; PATENT ABSTRACTS OF JAPAN 1990, V014 (310), PC-0736

- (6) Anon; PATENT ABSTRACTS OF JAPAN 1992, V016(148), PC-0928
- (7) Anon; PATENT ABSTRACTS OF JAPAN 1995, V1995(04)
- (8) Basf Aq; EP 0350691 A 1990 HCAPLUS
- (9) Basf Aq; WO 9710215 A 1997 HCAPLUS
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- (19) Ishihara Sangyo Kaisha Ltd; JP 07025853 A 1995 HCAPLUS
- (20) Ishihara Sangyo Kk; JP 58035174 A 1983 HCAPLUS
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- (23) Minn; HCAPLUS
- (24) Minn; SYNLETT 1991, 2, P115 HCAPLUS
- (25) Mitsubishi Petrochem Co Ltd; JP 04005282 A 1992 HCAPLUS
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- (28) Sumitomo Chemical Co; EP 0469711 A 1992 HCAPLUS
- (29) Sumitomo Chemical Co; EP 0648729 A 1995 HCAPLUS
- (30) Uniroyal Chem Co Inc; WO 9207848 A 1992 HCAPLUS
- 326807-13-0P TT

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of pyridine derivs. as phytopathogenic fungicides)

- RN326807-13-0 HCAPLUS
- CN2-Pyridineacetic acid, 3-chloro-α-[(phenylmethyl)amino]-5-(trifluoromethyl) -, ethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} F_3C & & & & \\ & N & & & \\ & CH-C-OEt & & \\ & C1 & & NH-CH_2-Ph \end{array}$$

- ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN L88
- AN 2001:136944 HCAPLUS
- DN 134:174247
- ED Entered STN: 25 Feb 2001
- TI Preparation of fungicidal nitrogen compounds
- Cooke, Tracey; Ekwuru, Tennyson; Hardy, David; IN

```
Millward, Peter; Moloney, Brian; Pettinger, Andrew; Thomas,
      Peter Stanley; Turner, Richar Michael
PΑ
      Aventis CropScience GmbH, Germany
SO
      PCT Int. Appl., 42 pp.
      CODEN: PIXXD2
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      heterocyclyl or carbocyclyl; R1, R2 = alkyl, alkenyl, cyano, nitro, halo,
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(1) Agrevo Uk Ltd; WO 9907687 A 1999 HCAPLUS
(2) Ash, M; US 4423222 A 1983 HCAPLUS
(3) Bayer Ag; EP 0334138 A 1989 HCAPLUS
(4) Bayer Ag; WO 9708135 A 1997 HCAPLUS
(5) Dainippon; JP 08-208615 A 1996 HCAPLUS
(6) Mitsubishi; JP 07-173139 A 1995 HCAPLUS
(7) Mitsubishi Chem Corp; EP 0726266 A 1996 HCAPLUS
(8) Mitsubishi Chem Ind; EP 0329020 A 1989 HCAPLUS
(9) Moloney, B; WO 9942447 A 1999 HCAPLUS
(10) Takeda Chemical Industries Ltd; EP 0404190 A 1990 HCAPLUS
(11) Tokuyama, S; JP 64-003162 A 1989 HCAPLUS
(12) Torba, F; US 3609158 A 1971 HCAPLUS
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    Elizabeth Anne
    Agrevo UK Limited, UK
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    PCT Int. Appl., 39 pp.
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OS MARPAT 131:170272

GΙ

IT

Title compds. such as I (R = 2-CF3, 3-Br, 4-Cl) were prepared as agricultural fungicides. Thus, 0.35 g [3-chloro-5-(trifluoromethyl)-2-pyridyl]methylamine and 0.39 g 2-(trifluoromethyl)benzoyl chloride reacted in dry ether in the presence of 0.27 mL Et3N to give I (R = 2-CF3). The products were tested at 500 ppm (w/v) against late blight, vine downy mildew, wheat powdery mildew, rice blast, glume blotch, and gray mold.

ST pyridylmethylamine deriv prepn fungicidal activity

Fungicides

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(1) Bayer AG; DE 2417763 A 1975 HCAPLUS
(2) Fujisawa Pharmaceutical Co; EP 0356234 A 1990 HCAPLUS
(3) Hoechst Schering Agrevo GMBH; DE 4434637 A 1996 HCAPLUS
(4) Shell Agrar GMBH & Co KG; EP 0262393 A 1988 HCAPLUS
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RN
     239109-95-6 HCAPLUS
     Benzamide, N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-2-
CN
     (trifluoromethyl) - (9CI) (CA INDEX NAME)
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=> => d all hitstr

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L91 ANSWER 2 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:423412 HCAPLUS

DN 135:30294

ED Entered STN: 12 Jun 2001

TI Synergistic insecticidal compositions containing oxadiazoline derivatives, insect control, and enhancement of insecticidal action of the derivatives

IN Akayama, Atsuo

PA Takeda Chemical Industries, Ltd., Japan
```

SO Jpn. Kokai Tokkyo Koho, 67 pp.

CODEN: JKXXAF

DT Patent

ĹΑ Japanese

IC

ICM C07D413-04 ICS A01N043-836; C07D413-14

5-4 (Agrochemical Bioregulators) Section cross-reference(s): 28

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE ---------_____ A2 JP 1999-340604 19991130 <--JP 2001158785 20010612

PRAI JP 1999-340604 19991130 <--

CLASS

CLASS PATENT FAMILY CLASSIFICATION CODES PATENT NO. _ _ _ _ _

ICM C07D413-04 JP 2001158785

> A01N043-836; C07D413-14 ICS

MARPAT 135:30294 OS

GI

Insecticidal compns. contain the derivs. I [R1 = C1-6 alkyl, C1-6 AB haloalkyl; n = 0, 1, 2; X = NR2R3 (R2, R3 = H, C1-6 alkyl which may be substituted with pyridyl), N:CHOR4 (R4 = C1-6 alkyl), N:CHNR6R7 (R6, R7 = H, C1-6 alkyl), N:CHAr (Ar = Ph which may be substituted with OH or C1-3 alkoxy), pyrrolyl; R5 = (un)substituted alkyl, (un)substituted acyl; R8 = halo, C1-6 haloalkyl, C1-6 haloalkoxy, Ph which may be substituted with C1-6 haloalkyl; A = N, CR9 (R9 = Cl, cyano); B = N, CH] or their salts and other agrochem. components such as insecticidal clothianidin, nitenpyram, cartap hydrochloride, bensultap, pyraclofos, etc. Insects are controlled by combined use of I or their salts with the other agrochem. components. Insecticidal activity of I or their salts is enhanced by combined use with the other agrochem. components. I (n =1, R1 = R8 = CF3, R5 = CONMe2, A = CCl, B = N, X = N:CHOCHMe2) (preparation given) and clothianidin showed synergistic action against Plutella maculipennis larvae in pot culture of cabbage. Agrochem. formulations containing I were also given.

oxadiazoline deriv synergistic insecticide; clothianidin oxadiazoline ST deriv synergistic insecticide

IT Fungicides

(agrochem.; preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

IT Insecticides

> (preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

Insecticides IT

```
(synergistic; preparation of insecticidal oxadiazoline derivs. and
        synergistic agrochem. insecticides containing them)
IT
     15263-52-2, Cartap hydrochloride
                                        17606-31-4, Bensultap
                  150824-47-8, Nitenpyram
                                            210880-92-5, Clothianidin
     Pyraclofos
     230643-18-2
                   230643-57-9
                                 230643-58-0
                                               230643-59-1
                                                              230643-60-4
                   230643-62-6
                                 230643-63-7
                                               230643-64-8
                                                              230643-65-9
     230643-61-5
                   230643-67-1
                                 230643-68-2
                                               230643-69-3
                                                              230643-70-6
     230643-66-0
                   230643-73-9
                                 230643-74-0
                                               230643-75-1
                                                              230643-76-2
     230643-71-7
     230643-77-3
                   230643-78-4
                                 230643-79-5
                                               230643-80-8
                                                              230643-81-9
     230643-82-0
                   230643-83-1
                                 230643-84-2
                                               230643-86-4
                                                              230643-87-5
     230643-88-6
                   230643-89-7
                                 230643-90-0
                                               230643-91-1
                                                              230643-92-2
     230643-93-3
                   230643-94-4
                                 230643-95-5
                                               230643-96-6
                                                              230643-97-7
     230643-98-8
                   230643-99-9
                                 230644-00-5
                                               230644-01-6
                                                              230644-02-7
     230644-03-8
                   230644-04-9
                                 230644-05-0
                                               230644-06-1
                                                              230644-07-2
     230644-08-3
                   230644-09-4
                                 230644-10-7
                                               230644-11-8
                                                              230644-12-9
     230644-13-0
                   230644-14-1
                                 230644-15-2
                                               230644-16-3
                                                              230644-17-4
     230644-18-5
                   230644-19-6
                                 230644-20-9
                                               230644-21-0
                                                              230644-22-1
     230644-23-2
                   230644-24-3
                                 230644-25-4
                                               230644-26-5
                                                              230644-27-6
     230644-28-7
                   230644-29-8
                                 230644-30-1
                                               230644-31-2
                                                              230644-32-3
     230644-33-4
                   230644-34-5
                                 230644-35-6
                                               230644-36-7
                                                              230644-37-8
     230644-38-9
                   230644-39-0
                                 230644-40-3
                                               230644-41-4
                                                              230644-42-5
                                               230644-46-9
                                                              230644-47-0
     230644-43-6
                   230644-44-7
                                 230644-45-8
     230644-50-5
                   230644-51-6
                                 230644-52-7
                                               230644-53-8
                                                              230644-54-9
                                 230644-57-2
                                               230644-58-3
     230644-55-0
                   230644-56-1
                                                              230644-59-4
                                               230644-63-0
                                                              230644-64-1
     230644-60-7
                   230644-61-8
                                 230644-62-9
                                               230644-68-5
     230644-65-2
                   230644-66-3
                                 230644-67-4
                                                              230644-69-6
                   230644-71-0
                                 230644-72-1
                                               230646-34-1
                                                              251563-86-7
     230644-70-9
                   251563-95-8
                                 251563-96-9
                                               251563-97-0
                                                              251563-98-1
     251563-87-8
                                 251564-01-9
                                               251564-02-0
     251563-99-2
                   251564-00-8
                                                              251564-04-2
     251564-05-3 251564-06-4
                               251564-07-5 251564-08-6
                   344335-83-7
     344335-80-4
                                 344335-84-8
                                               344335-85-9
                                                              344335-86-0
    RL: AGR (Agricultural use); BAC (Biological activity or
     effector, except adverse); BSU (Biological study, unclassified); BIOL
     (Biological study); USES (Uses)
        (preparation of insecticidal oxadiazoline derivs. and synergistic agrochem.
        insecticides containing them)
                                   230643-12-6P
                                                  230643-13-7P
                                                                  230643-14-8P
TТ
     230643-10-4P
                    230643-11-5P
                    230643-16-0P
                                   230643-17-1P
                                                  230643-19-3P
                                                                  230643-21-7P
     230643-15-9P
                    230643-23-9P
                                   230643-24-0P
                                                  230643-25-1P
                                                                  230643-26-2P
     230643-22-8P
     230643-27-3P
                    230643-28-4P
                                   230643-29-5P
                                                  230643-30-8P
                                                                  230643-31-9P
                    230643-34-2P
                                   230643-35-3P
                                                   230643-72-8P
                                                                  230643-85-3P
     230643-33-1P
     230644-49-2P
                    251563-81-2P
                                   251563-82-3P
                                                  251563-83-4P
                                                                  251563-84-5P
     251563-85-6P
    RL: AGR (Agricultural use); BAC (Biological activity or effector, except
    adverse); BSU (Biological study, unclassified); SPN (Synthetic
    preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of insecticidal oxadiazoline derivs. and synergistic agrochem.
        insecticides containing them)
                                         121-33-5, Vanillin
IT
    109-89-7, Diethylamine, reactions
                                                               122-51-0,
    Triethyl orthoformate
                             123-62-6, Propionic acid anhydride
                                                                   624-83-9,
                         696-59-3, 2,5-Dimethoxy tetrahydrofuran
    Methyl isocyanate
                                                                    2491-06-7,
                                         3282-30-2, Pivaloyl chloride
    N, N-Dimethylglycine hydrochloride
     4447-60-3, Triisopropyl orthoformate
                                            4637-24-5
                                                         24424-99-5,
                                               194942-27-3
    Di-tert-butyl dicarbonate
                                 194942-26-2
                                                              194942-29-5
                   194942-31-9
                                 230643-32-0
                                               251564-09-7
     194942-30-8
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of insecticidal oxadiazoline derivs. and synergistic agrochem.
        insecticides containing them)
IT
    251564-06-4 251564-08-6
    RL: AGR (Agricultural use); BAC (Biological activity or
     effector, except adverse); BSU (Biological study, unclassified); BIOL
     (Biological study); USES (Uses)
        (preparation of insecticidal oxadiazoline derivs. and synergistic agrochem.
```

insecticides containing them)

RN 251564-06-4 HCAPLUS

CN 1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazol-3-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

RN 251564-08-6 HCAPLUS

CN 1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)thio]-1H-pyrazol-3-yl]-N,N-dimethyl-(9CI) (CA INDEX NAME)

L91 ANSWER 3 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:658097 HCAPLUS

DN 133:222600

ED Entered STN: 20 Sep 2000

TI Preparation of cyanomethylene hydrazine derivatives as acaricide, insecticides, and fungicides

IN Abe, Masaki; Gotouda, Satoshi; Murakami, Mitsuyuki; Nakagawa, Hirofumi; Wakisaka, Seiichi; Sasama, Yasuhiro

PA Ohtsuka Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C07D213-57 ICS A01N043-40; C07D213-61; C07D213-69; C07D213-70; C07D213-71; C07D213-79; C07D213-85

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000256322	A2	20000919	JP 1999-64654	19990311 <
PRAI JP 1999-64654		19990311	<	

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

JP 2000256322 ICM C07D213-57
ICS A01N043-40; C07D213-61; C07D213-69; C07D213-70; C07D213-71; C07D213-79; C07D213-85

OS MARPAT 133:222600

GI

$$R^2$$
n R^1 $C1$ R^3 R^3 R^3

AB Title compds. I (R1 = H, alkyl; R2 = halo, alkyl, haloalkyl; R3 = haloalkyl, NO2, etc.; n = 0, 1, 2), useful as acaricides, insecticides, and fungicides, are prepared Thus, refluxing 6-cyanonicotinoyl cyanide 2,6-dichloro-4-trifluoromethylphenylhydrazone with MeI in MeCN for 14 h gave 6-cyanonicotinoyl cyanide N-(2,6-dichloro-4-trifluoromethylphenyl)-N-methylhydrazone (II). II showed acaricidal, insecticidal, and fungicidal activities.

ST cyanomethylene hydrazine prepn acaricide insecticide fungicide

IT Acaricides

Fungicides

Insecticides

(preparation of cyanomethylenehydrazine derivs. as acaricides, insecticides, and fungicides)

IT 292044-17-8P

IT

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of cyanomethylenehydrazine derivs. as acaricides, insecticides, and fungicides)

292044-00-9P **292044-01-0P** 292044-02-1P 292044-03-2P 292044-08-7P 292044-04-3P 292044-05-4P 292044-06-5P 292044-07-6P 292044-13-4P 292044-09-8P 292044-10-1P 292044-11-2P 292044-12-3P 292044-14-5P 292044-15-6P 292044-16-7P 292044-18-9P 292044-19-0P 292044-23-6P 292044-24-7P 292044-20-3P 292044-21-4P 292044-22-5P 292044-28-1P 292044-29-2P 292044-25-8P 292044-26-9P 292044-27-0P 292044-32-7P 292044-33-8P 292044-34-9P 292044-30-5P 292044-31-6P 292044-37-2P 292044-38-3P 292044-39-4P 292044-35-0P 292044-36-1P 292044-40-7P 292044-41-8P 292044-42-9P 292044-43-0P 292044-44-1P 292044-47-4P 292044-48-5P 292044-49-6P 292044-45-2P 292044-46-3P 292044-51-0P 292044-52-1P 292044-53-2P 292044-54-3P 292044-50-9P 292044-57-6P 292044-55-4P 292044-56-5P 292044-58-7P 292044-59-8P 292044-60-1P 292044-61-2P 292044-62-3P 292044-63-4P 292044-64-5P 292044-66-7P 292044-67-8P 292044-68-9P 292044-69-0P 292044-65-6P 292044-71-4P 292044-72-5P 292044-73-6P 292044-74-7P 292044-75-8P 292044-76-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of cyanomethylenehydrazine derivs. as acaricides, insecticides, and fungicides)

qazi - 10 / 049980 IT 70165-31-0, 6-Cyanonicotinic acid 86398-94-9, 2,6-Dichloro-4trifluoromethylphenylhydrazine RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of cyanomethylenehydrazine derivs. as acaricides, insecticides, and fungicides) 292044-77-0P IT 500-22-1P, Nicotinaldehyde 292044-78-1P 292044-79-2P 292044-80-5P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of cyanomethylenehydrazine derivs. as acaricides, insecticides, and fungicides) 292044-01-0P IT RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of cyanomethylenehydrazine derivs. as acaricides, insecticides, and fungicides) 292044-01-0 HCAPLUS RN CN 2-Pyridineacetonitrile, 3-chloro- α -[[2,6-dichloro-4-(trifluoromethyl)phenyl]hydrazono]-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

1999:126884 HCAPLUS

Entered STN: 26 Feb 1999

130:168382

AN DN

ED

L91 ANSWER 5 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN

Preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones. ΤI IN West, Peter John; Carver, David Stephen; Cooper, Ian Paul; Gates, Peter Stuart; Simpson, Donald James; Turner, Richard Michael PΑ Agrevo UK Limited, UK SO PCT Int. Appl., 43 pp. CODEN: PIXXD2 DT Patent LA English IC ICM C07D249-12 ICS C07D249-14; C07D409-10; C07D417-12; C07D401-12; C07D403-12; C07D405-10; C07D417-10; C07D413-10; C07D471-04; C07F007-10; A01N043-653; A01N055-10 28-10 (Heterocyclic Compounds (More Than One Hetero Atom)) CC Section cross-reference(s): 5 FAN.CNT 1 APPLICATION NO. PATENT NO. KIND DATE DATE -----______ _____ _ _ _ _ -----PT WO 9907687 A1 19990218 WO 1998-GB2238 19980805 <--W: AU, BR, CA, CN, HU, IL, JP, KR, MX, PL, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE AU 9886352 A1 19990301 AU 1998-86352 19980805 <--PRAI GB 1997-16446 19970805 <---WO 1998-GB2238 19980805 <--CLASS CLASS PATENT FAMILY CLASSIFICATION CODES PATENT NO.

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WO 9907687 ICM C07D249-12 ICS C07D409-10; C07D417-12; C07D401-12; C07D403-12; C07D405-10; C07D417-10; C07D413-10; C07D471-04; C07F007-10; A01N043-653; A01N055-10 OS MARPAT 130:168382
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GΙ

Title compds. [I; R1 = (substituted) alkyl; R2 = (substituted) alkyl, AΒ halo, OR4, SR4, SOR4, SO2R4, NR5R6; n = 0-4; R3 = (substituted) alkyl, halo; R7, R7a = (substituted) alkyl, acyl, halo, cyano; K = O, S, SO, SO2, CO, NR8, CONR8, bond, etc.; L = (substituted) alkyl, alkenyl, alkynyl, heterocyclyl, carbocyclyl, Si(R15)3; or 1 of R3, K, or L form a (substituted) fused ring with the benzene ring; R4 = H, (substituted) alkyl; R5, R6 = H, (substituted) alkyl; NR5R6 = (substituted) heterocyclyl; R8 = H, (substituted) alkyl, carbocyclyl, heterocyclyl; R15 = alkyl], having fungicidal, insecticidal, and acaricidal activity, were prepared Thus, 4-(3-bromobenzyl)-3-methoxy-4,5-dihydro-1H-1,2,4-triazol-5-one, trimethylsilylacetylene, Pd(OAc)2, and PPh3 were refluxed 3 h in Et3N and PhMe to give 3-methoxy-1-methyl-4-[4-[2-(trimethylsilyl)ethynyl]benzyl]-4,5-dihydro-1H-1,2,4-triazol-4-one. latter gave moderate or better control of Plasmopara viticola and Leptosphaeria nodorum.

ST benzyltriazolinone prepn pesticide; triazolinone benzyl prepn pesticide; fungicide agrochem benzyltriazolinone

IT Fungicides

IT

IT

(agrochem.; preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones) Pesticides

(preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones)
220464-31-3P 220464-33-5P 220464-34-6P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones) IT220463-47-8P 220463-48-9P 220463-49-0P 220463-50-3P 220463-51-4P 220463-52-5P 220463-53-6P 220463-54-7P 220463-55-8P 220463-56-9P 220463-57-0P 220463-58-1P 220463-59-2P 220463-60-5P 220463-61-6P 220463-62-7P 220463-63-8P 220463-64-9P 220463-65-0P 220463-66-1P 220463-67-2P 220463-68-3P 220463-69-4P 220463-70-7P 220463-71-8P 220463-76-3P 220463-72-9P 220463-73-0P 220463-74-1P 220463-75-2P 220463-78-5P 220463-79-6P 220463-80-9P 220463-81-0P 220463-77-4P 220463-82-1P 220463-83-2P 220463-84-3P 220463-85-4P 220463-86-5P 220463-88-7P 220463-89-8P 220463-90-1P 220463-91-2P 220463-87-6P 220463-92-3P 220463-93-4P 220463-94-5P 220463-95-6P 220463-96-7P 220463-97-8P 220463-98-9P 220463-99-0P 220464-00-6P 220464-01-7P 220464-02-8P 220464-03-9P 220464-04-0P 220464-05-1P 220464-06-2P 220464-07-3P 220464-08-4P 220464-09-5P 220464-10-8P 220464-11-9P 220464-12-0P 220464-13-1P 220464-14-2P 220464-16-4P 220464-18-6P 220464-20-0P 220464-21-1P **220464-23-3P** 220464-25-5P

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220464-29-9P
220464-27-7P
               220464-28-8P
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220464-35-7P
               220464-36-8P
                              220464-37-9P
                                              220464-38-0P
220464-40-4P
               220464-41-5P
                              220464-42-6P
                                              220464-43-7P
                                                             220464-44-8P
220464-45-9P
               220464-46-0P
                              220464-47-1P
                                              220464-48-2P
                                                             220464-49-3P
220464-50-6P
               220464-51-7P
                              220464-52-8P
                                              220464-53-9P
                                                             220464-54-0P
               220464-56-2P
                              220464-57-3P
                                              220464-58-4P
220464-55-1P
                                                             220464-59-5P
220464-60-8P
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones)
IT 349-76-8 1066-54-2, Trimethylsilylacetylene 5122-94-1,
4-Phenylbenzeneboronic acid 53065-41-1 220464-65-3 220464-66-4
220464-67-5 220464-68-6, Methyl 3-bromomethyl-4-chlorobenzoate
RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones) 220464-61-9P 220464-62-0P 220464-63-1P 220464-64-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones)
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Ciba-Geigy AG; EP 0475898 A 1992 HCAPLUS
- (2) EI Du Pont De Nemours and Company; WO 9626191 A 1996 HCAPLUS
- (3) EI Du Pont De Nemours and Company; WO 9636615 A 1996 HCAPLUS
- (4) EI Du Pont De Nemours and Company; WO 9636616 A 1996 HCAPLUS
- (5) GD Searle & Co; WO 9118888 A 1991 HCAPLUS
- (6) Merck & Co Inc; EP 0412594 A 1991 HCAPLUS
- (7) Merck & Co, Inc; WO 9112001 A 1991 HCAPLUS
- (8) Merck & Co, Inc; WO 9220662 A 1992 HCAPLUS
- IT 220464-23-3P

IT

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones)

RN 220464-23-3 HCAPLUS

CN Benzamide, 4-chloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-3[(1,5-dihydro-3-methoxy-1-methyl-5-oxo-4H-1,2,4-triazol-4-yl)methyl](9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

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L91 ANSWER 8 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN
     1998:682223 HCAPLUS
AN
DN
     129:275705
ED
     Entered STN: 28 Oct 1998
     Preparation of aromatic oxime ethers as insecticides, acaricides, and
ΤI
     agrochemical fungicides.
IN
     Hirose, Taro; Kimura, Norio
     Sumitomo Chemical Co., Ltd., Japan
PA
SO
     PCT Int. Appl., 164 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM C07C251-48
     ICS A01N035-10; A01N039-04; A01N043-34; C07C251-52; C07C323-53;
           C07C255-62; C07C259-14; C07C251-54; C07D213-30; C07D261-08;
           C07D303-12; C07C327-58; C07C255-64; C07C259-06; C07D239-34;
           C07D317-64; C07C069-712
     25-22 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
     Section cross-reference(s): 5
FAN.CNT 1
     PATENT NO.
                           KIND DATE
                                               APPLICATION NO.
                                                                         DATE
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                                   19981008 WO 1998-JP1408
PΙ
     WO 9843949
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                                                                         19980327 <--
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
              FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
              GA, GN, ML, MR, NE, SN, TD, TG
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         R: CH, DE, FR, GB, IT, LI, NL
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JP 1998-26074
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                           A 19980206 <--
W 19980327 <--
     WO 1998-JP1408
CLASS
                  CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
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                          C07C251-48
                  ICS
                          A01N035-10; A01N039-04; A01N043-34; C07C251-52;
                          C07C323-53; C07C255-62; C07C259-14; C07C251-54;
                          C07D213-30; C07D261-08; C07D303-12; C07C327-58;
                          C07C255-64; C07C259-06; C07D239-34; C07D317-64;
                          C07C069-712
os
     MARPAT 129:275705
GΙ
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$$\begin{array}{c|c}
V & T & O & \mathbb{Z}R^6 \\
V & T & Y & OR^5
\end{array}$$

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Title compds. [I; R1 = H, alkyl, cycloalkyl, alkoxyalkyl, haloalkyl,
AB
     cyano, NO2, alkoxycarbonyl; 1 of T, U, V = CR2, another = CH, N, the last
     = CR3, N; W = CR33, N; R2, R3, R33 = H, halo, alkyl, alkoxy, haloalkyl,
     haloalkoxy, cyano, NO2, alkoxycarbonyl, alkylthio, haloalkylthio; R4 = H,
     (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl,
heterocyclyl; R5, R6 = alkyl; X = NR7, O, S; R7 = (substituted) alkyl; Y =
     CH, N; Z = O, NH; when Y = CH, then Z = O, were prepared Thus, Me
     2-(N-methyl-3-acetylanilino)-3-methoxyacrylate (preparation given) was stirred
     with MeONH2.HCl in pyridine/MeOH to give Me 2-[N-methyl-3-(1-
     methoxyiminoethyl)anilino]-3-methoxyacrylate. The latter had preventive
     activity against rice blast.
     arom oxime ether prepn fungicide; insecticide arom oxime ether
ST
     prepn; acaricide arom oxime ether prepn
IT
     Fungicides
        (agrochem.; preparation of aromatic oxime ethers as insecticides,
acaricides,
        and agrochem. fungicides)
IT
     Acaricides
     Insecticides
        (preparation of aromatic oxime ethers as insecticides, acaricides, and
        agrochem. fungicides)
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                    213904-75-7P
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     213904-37-1P
     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN
     (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT
     (Reactant or reagent); USES (Uses)
        (preparation of aromatic oxime ethers as insecticides, acaricides, and
        agrochem. fungicides)
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213906-08-2P
                              213906-10-6P
RL: AGR (Agricultural use); BAC (Biological activity or
effector, except adverse); BSU (Biological study, unclassified); SPN
(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES
(Uses)
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(preparation of aromatic oxime ethers as insecticides, acaricides, and agrochem. fungicides)

74-89-5, Methylamine, reactions 96-32-2, Methyl bromoacetate 99-61-6, 149-73-5, 121-71-1 3-Nitrobenzaldehyde 107-31-3, Methyl formate 407-25-0, Trifluoroacetic anhydride 621-50-1 Trimethyl orthoformate 2365-48-2, Methyl thioglycolate 2687-43-6, O-Benzylhydroxylamine

IT

hydrochloride 3814-19-5 17071-24-8, 3-Amino-4-methylacetophenone 30673-27-9 33414-49-2, 3-Hydroxy-4-methylacetophenone 42865-75-8 61124-56-9 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine 73898-20-1 149691-66-7 213906-05-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of aromatic oxime ethers as insecticides, acaricides, and agrochem. fungicides)

IT6951-35-5P 53663-37-9P 82146-76-7P 213905-59-0P 213905-60-3P 213905-61-4P 213905-62-5P 213905-63-6P 213905-64-7P 213905-65-8P 213905-66-9P 213905-67-0P 213905-68-1P 213905-69-2P 213905-70-5P 213905-71-6P 213905-72-7P 213905-73-8P 213905-74-9P 213905-75-0P 213905-76-1P 213905-77-2P 213905-78-3P 213905-79-4P 213905-80-7P 213905-81-8P 213905-82-9P 213905-83-0P 213905-84-1P 213905-86-3P 213905-87-4P 213905-88-5P 213905-89-6P 213905-90-9P 213905-91-0P 213905-92-1P 213905-93-2P 213905-94-3P 213905-95-4P 213905-96-5P 213905-97-6P 213905-98-7P 213905-99-8P 213906-00-4P 213906-01-5P 213906-02-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of aromatic oxime ethers as insecticides, acaricides, and agrochem. **fungicides**)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

(1) Bayer Ag; EP 0464381 A 1992 HCAPLUS

(2) Faulkner, J; JOURNAL OF THE CHEMICAL SOCIETY 1962, P4737 HCAPLUS

T 213904-54-2P 213904-86-0P 213904-92-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aromatic oxime ethers as insecticides, acaricides, and agrochem. fungicides)

RN 213904-54-2 HCAPLUS

CN 2-Propenoic acid, 2-[3-[1-[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]imino]ethyl]phenoxy]-3-methoxy-, methyl ester (9CI) (CAINDEX NAME)

RN 213904-86-0 HCAPLUS

CN 2-Propenoic acid, 2-[[3-[1-[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]imino]ethyl]phenyl]methylamino]-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)

CN 2-Propenoic acid, 2-[5-[1-[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]imino]ethyl]-2-methylphenoxy]-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)

=> d all hitstr tot

L105 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:423412 HCAPLUS

DN 135:30294

ED Entered STN: 12 Jun 2001

TI Synergistic insecticidal compositions containing oxadiazoline derivatives, insect control, and enhancement of insecticidal action of the derivatives

IN Akayama, Atsuo

PA Takeda Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 67 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C07D413-04

ICS A01N043-836; C07D413-14

CC 5-4 (Agrochemical Bioregulators) Section cross-reference(s): 28

FAN CNT 1

FAN.CNT 1 PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI JP 2001158785 PRAI JP 1999-340604 CLASS	A2	20010612 19991130	JP 1999-340604 <	19991130 <	
PATENT NO. CLASS	PATENT FAMILY CLASSIFICATION CODES				
JP 2001158785 ICM	C07D413	3-04			

A01N043-836; C07D413-14

ICS
OS MARPAT 135:30294

GI

Ι

Insecticidal compns. contain the derivs. I [R1 = C1-6 alkyl, C1-6 AB haloalkyl; n = 0, 1, 2; X = NR2R3 (R2, R3 = H, C1-6 alkyl which may be substituted with pyridyl), N:CHOR4 (R4 = C1-6 alkyl), N:CHNR6R7 (R6, R7 = H, C1-6 alkyl), N:CHAr (Ar = Ph which may be substituted with OH or C1-3 alkoxy), pyrroly1; R5 = (un)substituted alky1, (un)substituted acy1; R8 = halo, C1-6 haloalkyl, C1-6 haloalkoxy, Ph which may be substituted with C1-6 haloalkyl; A = N, CR9 (R9 = Cl, cyano); B = N, CH] or their salts and other agrochem. components such as insecticidal clothianidin, nitenpyram, cartap hydrochloride, bensultap, pyraclofos, etc. Insects are controlled by combined use of I or their salts with the other agrochem. components. Insecticidal activity of I or their salts is enhanced by combined use with the other agrochem. components. I (n =1, R1 = R8 = CF3, R5 = CONMe2, A = CCl, B = N, X = N:CHOCHMe2) (preparation given) and clothianidin showed synergistic action against Plutella maculipennis larvae in pot culture of cabbage. Agrochem. formulations containing I were also given. oxadiazoline deriv synergistic insecticide; clothianidin oxadiazoline ST deriv synergistic insecticide

IT

Fungicides

(agrochem.; preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

IT Insecticides

(preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

230644-41-4

230644-42-5

IT Insecticides

230644-38-9

IT

(synergistic; preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

15263-52-2, Cartap hydrochloride 17606-31-4, Bensultap 89784-60-1, 210880-92-5, Clothianidin Pyraclofos 150824-47-8, Nitenpyram 230643-58-0 230643-59-1 230643-60-4 230643-18-2 230643-57-9 230643-63-7 230643-64-8 230643-65-9 230643-61-5 230643-62-6 230643-68-2 230643-69-3 230643-70-6 230643-66-0 230643-67-1 230643-71-7 230643-73-9 230643-74-0 230643-75-1 230643-76-2 230643-78-4 230643-79-5 230643-80-8 230643-81-9 230643-77-3 230643-84-2 230643-86-4 230643-87-5 230643-82-0 230643-83-1 230643-89-7 230643-92-2 230643-88-6 230643-90-0 230643-91-1 230643-94-4 230643-96-6 230643-97-7 230643-93-3 230643-95-5 230644-02-7 230643-99-9 230644-00-5 230644-01-6 230643-98-8 230644-07-2 230644-05-0 230644-06-1 230644-03-8 230644-04-9 230644-11-8 230644-12-9 230644-08-3 230644-10-7 230644-09-4 230644-16-3 230644-17-4 230644-15-2 230644-13-0 230644-14-1 230644-22-1 230644-20-9 230644-21-0 230644-18-5 230644-19-6 230644-27-6 230644-25-4 230644-26-5 230644-23-2 230644-24-3 230644-30-1 230644-31-2 230644-32-3 230644-28-7 230644-29-8 230644-35-6 230644-36-7 230644-37-8 230644-33-4 230644-34-5

230644-40-3

230644-39-0

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344335-80-4
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except
adverse); BSU (Biological study, unclassified); BIOL (Biological study);
USES (Uses)
   (preparation of insecticidal oxadiazoline derivs. and synergistic agrochem.
   insecticides containing them)
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251563-85-6P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except
adverse); BSU (Biological study, unclassified); SPN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
   (preparation of insecticidal oxadiazoline derivs. and synergistic agrochem.
   insecticides containing them)
109-89-7, Diethylamine, reactions
                                    121-33-5, Vanillin
                                                         122-51-0,
Triethyl orthoformate 123-62-6, Propionic acid anhydride
                                                              624-83-9,
Methyl isocyanate
                   696-59-3, 2,5-Dimethoxy tetrahydrofuran
                                                             2491-06-7,
N, N-Dimethylglycine hydrochloride 3282-30-2, Pivaloyl chloride
4447-60-3, Triisopropyl orthoformate 4637-24-5 24424-99-5,
Di-tert-butyl dicarbonate
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                                          251564-09-7
RL: RCT (Reactant); RACT (Reactant or reagent)
   (preparation of insecticidal oxadiazoline derivs. and synergistic agrochem.
   insecticides containing them)
251564-06-4 251564-08-6
RL: AGR (Agricultural use); BAC (Biological activity or effector, except
adverse); BSU (Biological study, unclassified); BIOL (Biological study);
   (preparation of insecticidal oxadiazoline derivs. and synergistic agrochem.
   insecticides containing them)
251564-06-4 HCAPLUS
1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-
(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazol-3-
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$$\begin{array}{c|c} & & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

yl]-N, N-dimethyl- (9CI) (CA INDEX NAME)

IT

IT

IT

RN

CN

RN251564-08-6 HCAPLUS

1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-CN (trifluoromethyl) -2-pyridinyl] -4-[(trifluoromethyl)thio]-1H-pyrazol-3-yl]-N, N-dimethyl- (9CI) (CA INDEX NAME)

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L105 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN
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2001:421116 HCAPLUS AN

135:30293 DN

Entered STN: 12 Jun 2001 ED

Ectoparasiticides containing oxadiazoline derivatives and control of TI ectoparasités in mammals

Akayama, Atsuo IN

Takeda Chemical Industries, Ltd., Japan PΑ

Jpn. Kokai Tokkyo Koho, 63 pp. SO

CODEN: JKXXAF

DTPatent

LΑ Japanese

IC

ICM C07D413-04 ICS A01N043-836; C07D413-14

CC 5-4 (Agrochemical Bioregulators) Section cross-reference(s): 28

FAN.CNT 1

PAN.CIVI I				
PATENT N	O. KIN	D DATE	APPLICATION NO	. DATE
PI JP 20011	58786 A2	2001061	2 JP 1999-340605	19991130 <
PRAI JP 1999-	340605	1999113	0 <	
CLASS				

PATENT NO.

CLASS PATENT FAMILY CLASSIFICATION CODES

JP 2001158786 ICM C07D413-04

ICS A01N043-836; C07D413-14

os MARPAT 135:30293

GΙ

AB Ectoparasites, e.g. arachnids, flies, lice, fleas, etc., are controlled by administration of the derivs. I [R1 = C1-6 alkyl, C1-6 haloalkyl; n = 0, 1, 2; X = NR2R3 (R2, R3 = H, C1-6 alkyl which may be substituted with pyridyl), N:CHOR4 (R4 = C1-6 alkyl), N:CHNR6R7 (R6, R7 = H, C1-6 alkyl), N:CHAr (Ar = Ph which may be substituted with OH or C1-3 alkoxy), pyrrolyl; R5 = (un)substituted alkyl, (un)substituted acyl; R8 = halo, C1-6 haloalkyl, C1-6 haloalkoxy, Ph which may be substituted with C1-6 haloalkyl; A = N, CR9 (R9 = C1, cyano); B = N, CH] or their salts to mammals. I (X = N:CHOEt, n = 1, R1 = R8 = CF3, R5 = CONMe2, A = CC1, B = N) was prepared Emulsions, feed additive granules, oral liqs., injections, aerosols, etc. containing I were also formulated.

ST oxadiazoline deriv prepn ectoparasiticide mammal; parasiticide ecto oxadiazoline deriv prepn

IT Parasiticides

(ecto-; preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT Drug delivery systems

(injections; preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT Drug delivery systems

(oral; preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT Mammal (Mammalia)

Pesticide formulations

(preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT Drug delivery systems

(topical; preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT Drugs

(veterinary; preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT 230643-10-4P 230643-13-7P 230643-11-5P 230643-12-6P 230643-14-8P 230643-15-9P 230643-16-0P 230643-17-1P 230643-19-3P 230643-21-7P 230643-22-8P 230643-23-9P 230643-24-0P 230643-25-1P 230643-26-2P 230643-27-3P 230643-29-5P 230643-30-8P 230643-28-4P 230643-31-9P 230643-33-1P 230643-34-2P 230643-35-3P 230643-72-8P 230643-85-3P 230644-49-2P 251563-81-2P 251563-82-3P 251563-83-4P 251563-84-5P 251563-85-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT 230643-18-2 230643-57-9 230643-58-0 230643-59-1 230643-60-4 230643-61-5 230643-63-7 230643-64-8 230643-65-9 230643-62-6 230643-66-0 230643-67-1 230643-68-2 230643-69-3 230643-70-6

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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of oxadiazoline derivs. as ectoparasiticides for mammals) 109-89-7, Diethylamine, reactions 121-33-5, Vanillin 122-51-0, Triethyl orthoformate 123-62-6, Propionic acid anhydride 624-83-9 Methyl isocyanate 696-59-3, 2,5-Dimethoxy tetrahydrofuran 2491-06-7, N, N-Dimethylglycine hydrochloride 3282-30-2, Pivaloyl chloride 4447-60-3, Triisopropyl orthoformate 4637-24-5 24424-99-5, 194942-26-2 Di-tert-butyl dicarbonate 194942-29-5 194942-27-3 194942-30-8 194942-31-9 230643-32-0 251564-09-7 RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of oxadiazoline derivs. as ectoparasiticides for mammals) 251564-06-4 251564-08-6

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of oxadiazoline derivs. as ectoparasiticides for mammals) 251564-06-4 HCAPLUS

1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazol-3-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

IT

IT

RN

CN

CN 1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)thio]-1H-pyrazol-3-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

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L105 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN
AN
     1999:784098 HCAPLUS
DN
     132:12312
     Entered STN: 10 Dec 1999
ED
     Preparation of (phenylpyrazolyl)oxadiazolines and analogs as insecticides
TI
     Kando, Yasuyuki; Noguchi, Makoto; Akayama, Atsuo; Masada, Shinichi; Kiji,
IN
     Toshiyuki
     Takeda Chemical Industries, Ltd., Japan
PA
     PCT Int. Appl., 116 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM C07D413-04
     ICS C07D413-14; A01N043-836
CC
     28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
     Section cross-reference(s): 5
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             TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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PRAI JP 1998-153166
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PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

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JP 1998-234733

JP 1999-95559

WO 1999-JP2876

CLASS

19980820

19990401

19990531

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WO 9962903 ICM C07D413-04

ICS C07D413-14; A01N043-836

OS MARPAT 132:12312

GΙ

AB Title compds. [I; R = NR2R3, N:CHOR4, N:CHPh, etc.; R1 = (halo)alkyl;
R2,R3 = H, (pyridyl)alkyl; R4 = alkyl; R5 = (un)substituted alkyl, -acyl;
Z = N or CH; Z1 = SO0-2; Z2 = N or CR9; R9 = Cl or cyano] were prepared
Thus, I (R = NH2, Z1R1 = SO2CF3, R8 = CF3, Z = N, Z2 = CCl)(II; R5 = H)
was condensed with HC(OCHMe2)3 to give II [R5 = (Me2CHO)2CH]. Data for biol. activity of I were given.

ST oxadiazoline phenylpyrazolyl prepn insecticide

IT Insecticides

IT

((phenylpyrazolyl)oxadiazolines and analogs)

IT 230643-23-9P 230643-25-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(oxadiazoline derivs. and their use as insecticides)

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     251564-06-4P
     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); SPN (Synthetic
     preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (oxadiazoline derivs. and their use as insecticides)
TT
     251563-83-4P
     RL: AGR (Agricultural use); RCT (Reactant); SPN (Synthetic preparation);
     BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent);
        (oxadiazoline derivs. and their use as insecticides)
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     251564-08-6P
     RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological
     study); PREP (Preparation); USES (Uses)
        (oxadiazoline derivs. and their use as insecticides)
IT
     109-89-7, Diethylamine, reactions 121-33-5, Vanillin
                                                              122-51-0,
                            123-62-6, Propionic anhydride
                                                             124-40-3,
     Triethyl orthoformate
                                                             624-83-9, Methyl
     Dimethylamine, reactions
                              624-78-2, Ethylmethylamine
                 696-59-3, 2,5-Dimethoxytetrahydrofuran 2491-06-7,
     isocvanate
     N, N-Dimethylqlycine hydrochloride 3282-30-2, Pivaloyl chloride
     4447-60-3, Triisopropyl orthoformate 4637-24-5
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     194941-86-1
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     251564-09-7
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        (oxadiazoline derivs. and their use as insecticides)
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     (Reactant or reagent)
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IT
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     RL: SPN (Synthetic preparation); PREP (Preparation)
        (oxadiazoline derivs. and their use as insecticides)
              THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
RE
(1) Rhone-Poulenc Agro; EP 0911329 A 1999 HCAPLUS
(2) Takeda Chemical Industries, Ltd; WO 9728126 A 1997 HCAPLUS
    251564-06-4P
    RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); SPN (Synthetic
    preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (oxadiazoline derivs. and their use as insecticides)
RN
     251564-06-4 HCAPLUS
CN
     1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-
     (trifluoromethyl) -2-pyridinyl] -4-[(trifluoromethyl) sulfinyl] -1H-pyrazol-3-
    yl]-N, N-dimethyl- (9CI) (CA INDEX NAME)
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IT 251564-08-6P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(oxadiazoline derivs. and their use as insecticides)

RN 251564-08-6 HCAPLUS

CN 1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)thio]-1H-pyrazol-3-yl]-N,N-dimethyl-(9CI) (CA INDEX NAME)

L105 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:505793 HCAPLUS

DN 131:129990

ED Entered STN: 16 Aug 1999

TI Preparation of 1-aryl-4-cyclopropylpyrazoles as medical and agrochemical parasiticides and pesticides.

IN Banks, Bernard Joseph

PA Pfizer Limited, UK; Pfizer Inc.

SO Eur. Pat. Appl., 33 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07D231-12

ICS A01N043-56; A61K031-415; C07D231-14; C07D231-16; C07D231-38

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1, 5

FAN.CNT 1

	PATENT NO.					KINI	D DATE		APPLICATION NO.					DATE					
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ΡI	EP 933363				A1		1999	0804	EP 1999-300330						19990119 <				
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Ι

GI

AB Title compds. [I; R1 = 2,4,6-trisubstituted Ph, 3,5-disubstituted pyridin-2-yl; R3 = H, substituted alkyl, alkanoyl; R5 = H, amino, halo; R2, R4 = H, F, Cl, Br; R6, R8 = H; R7 = H, (substituted) alkyl], were prepared Thus, 4-(2,2-dibromocyclopropyl)-1-(2,6-dichloro-4-trifluoromethylphenyl)-3-formylpyrazole (preparation given) in THF was added to a mixture prepared from BuLi and MePh3PBr in THF followed by 24 h stirring to give 4-(2,2-dibromocyclopropyl)-1-(2,6-dichloro-4-trifluoromethylphenyl)-3-ethenylpyrazole. The latter at 0.10 μg/fly gave 100% kill of Stomoxys calcitrans.

ST arylcyclopropylpyrazole prepn medical agrochem parasiticide; pyrazole cyclopropyl aryl prepn medical agrochem parasiticide; insecticide arylcyclopropylpyrazole prepn; acaricide arylcyclopropylpyrazole prepn IT Parasiticides

(ecto-; preparation of arylcyclopropylpyrazoles as medical and agrochem. parasiticides and pesticides)

IT Parasiticides

(endoparasiticides; preparation of arylcyclopropylpyrazoles as medical and agrochem. parasiticides and pesticides)

IT Acaricides

Insecticides

(preparation of arylcyclopropylpyrazoles as medical and agrochem. parasiticides and pesticides)

IT 234450-77-2P 234450-79-4P 234450-80-7P 234450-81-8P 234450-82-9P 234450-83-0P 234450-84-1P 234450-85-2P 234450-86-3P 234450-87-4P 234450-88-5P 234450-89-6P RL: AGR (Agricultural use); BAC (Biological activity or effector, except

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     preparation); THU (Therapeutic use); BIOL (Biological study); PREP
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        parasiticides and pesticides)
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     188538-69-4
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        parasiticides and pesticides)
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        (preparation of arylcyclopropylpyrazoles as medical and agrochem.
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              THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
ŔĔ
(1) Bayer Ag; EP 0286968 A 1988 HCAPLUS
(2) May & Baker Ltd; EP 0234119 A 1987 HCAPLUS
(3) Pfizer Inc; WO 9707102 A 1997 HCAPLUS
(4) Pfizer Ltd; EP 0846686 A 1998 HCAPLUS
(5) Pfizer Ltd; WO 9824767 A 1998 HCAPLUS
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        (preparation of arylcyclopropylpyrazoles as medical and agrochem.
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     1H-Pyrazole-3-carbonitrile, 1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-
CN
     (2,2-dibromocyclopropyl) - (9CI) (CA INDEX NAME)
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CF3

N
C1

N
Br
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L105 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN
AN
     1998:394326 HCAPLUS
     129:81868
DN
     Entered STN: 27 Jun 1998
ED
TI
     Preparation of cyclopropylpyrazoles with parasiticidal activity
     Banks, Bernard Joseph
IN
     Pfizer Limited, UK; Pfizer Inc.; Banks, Bernard Joseph
PA
     PCT Int. Appl., 98 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM C07D231-38
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		C07D231/16; C07D231/18; C07D231/38B3A;											
os	MARPAT 12	9:81868		•		,							
GI						•							

$$R^{2}$$
 R^{4}
 R^{8}
 R^{6}
 R^{1}
 R^{5}
 R^{5

AΒ Compds. of formula I [R1 = 2,4,6-trisubstituted Ph (2,6-dihalo-4-alkyl-, -4-haloalkyl-, -4-alkoxyalkyl-, -4-haloalkoxyalkyl-, -4-alkyl-SOn-alkyl-, -4-haloalkyl-SOn-alkyl-, -4-F5S-phenyl) or 3,5-disubstituted pyridin-2-yl (3-halo-5-alkyl-, -5-haloalkyl-, -5-alkoxyalkyl-, -5-haloalkoxyalkyl-, -5-alkyl-SOn-alkyl-, haloalkyl-SOn-alkyl-, -5-F5S-phenyl-pyridin-2-yl); R3 = (un)substituted C1-4-alkyl, hydroxyalkyl, haloalkyl, cyano, C1-5 alkanoyl, phenyl; R5 = H C1-4-alkyl, amino or halo; R2, R4 = C1-4-alkyl, fluoro, chloro, bromo or, together with the carbon atom to which they are attached, form a C3-6-cycloalkyl group; R6, R8 H, C1-4-alkyl, fluoro, chloro and bromo; or, when R2 and R4 do not form part of a cycloalkyl group, R2 and R6, together with the carbon atoms to which they are attached, may form a C5-7-cycloalkyl group; and R7 = H, (un) substituted C1-4-alkyl, haloalkyl, alkoxyalkyl; n = 0 - 2] or pharmaceutically, veterinarily or agriculturally acceptable salts thereof, or solvates of either entity, are parasiticidal agents. Thus, cyclopropylpyrazole II was prepared via cyclopropanation of pyrazole III with diazomethane in ether containing catalytic Pd(OAc)2. II showed insecticidal activity vs. Stomoxys calcitrans (100% mortality after 24 h at 0.05 $\mu g/fly$) and acaricidal

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activity vs. Boophilus microplus larvae (100% mortality after 48 h at 0.50
     \mu q/cm2).
ST
     cyclopropylpyrazole prepn parasiticidal insecticidal acaricidal; pyrazole
     cyclopropyl deriv prepn parasiticidal
IT
     Pyrethrins
     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); SPN (Synthetic
     preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (analogs; preparation of cyclopropylpyrazoles with parasiticidal activity)
IT
     Acaricides
     Insecticides
     Parasiticides
        (preparation of cyclopropylpyrazoles with parasiticidal activity)
TT
     208937-50-2P
                    208938-21-0P
     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic
     use); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of cyclopropylpyrazoles with parasiticidal activity)
IT
     208937-49-9P
     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); PUR (Purification or
     recovery); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic
     use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or
     reagent); USES (Uses)
        (preparation of cyclopropylpyrazoles with parasiticidal activity)
IT
     208937-95-5P
                   208937-97-7P 208938-01-6P
                                                   208938-06-1P
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     (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);
     PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
        (preparation of cyclopropylpyrazoles with parasiticidal activity)
     208937-48-8P
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     adverse); BSU (Biological study, unclassified); SPN (Synthetic
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                 115-11-7, reactions
                                       123-54-6, 2,4-Pentanedione, reactions
                              156-59-2, cis-1,2-Dichloroethylene
     142-29-0, Cyclopentene
                                                                   334-88-3,
                    356-24-1, Methyl heptafluorobutyrate
     Diazomethane
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     pentafluoropropionate
                            540-49-8, 1,2-Dibromoethylene
                                                              563-79-1,
     2,3-Dimethyl-2-butene
                             614-16-4, Benzoylacetonitrile
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                                 1118-61-2, 3-Aminocrotononitrile
     (Trimethylsilyl) acetylene
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     Methylenecyclobutane
                           1528-30-9, Methylenecyclopentane
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     Chlorodifluoroacetic anhydride
                                     3294-60-8, Phenyl (tribromomethyl)
               6142-73-0, Methylenecyclopropane
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     (Prop-2-yl) triphenylphosphonium iodide
                                               86398-94-9, [2,6-Dichloro-4-
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                                         106259-87-4, 5-Amino-3-methyl-1-(2,4,6-
     trichlorophenyl)pyrazole 111234-60-7, 5-Amino-1-[2,6-dichloro-4-
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(trifluoromethyl)phenyl]-3-(trifluoromethyl)pyrazole

5-Amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]pyrazole

120069-17-2, 5-Amino-3-cyano-1-(2,4,6-trichlorophenyl)pyrazole 136476-22-7, (3,3,3-Trifluoropropen-2-yl)zinc bromide N,N,N',N'tetramethylethylenediamine 1:1 complex 144293-01-6, 5-Amino-1-[3-chloro-5-(trifluoromethyl)pyridin-2-yl]-3-cyanopyrazole 149757-21-1, 5-Amino-3-cyano-1-[2,6-dichloro-4-(pentafluorothio)phenyl]pyrazole 185615-02-5 188538-69-4 RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of cyclopropylpyrazoles with parasiticidal activity) 106204-62-0P IT 106259-86-3P 111246-42-5P 111246-43-6P 185617-92-9P 188538-67-2P 188538-68-3P 188539-05-1P 188539-17-5P 188539-39-1P 188539-45-9P 188539-44-8P 188539-46-0P 188539-52-8P 188539-53-9P 188539-58-4P 188539-59-5P 188539-66-4P 188539-67-5P. 3-Cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]pyrazole-4carboxaldehyde 188539-68-6P 188539-69-7P 188539-70-0P 188539-72-2P 188539-73-3P 188539-74-4P 188539-77-7P 188539-75-5P 188539-76-6P 202827-16-5P 202827-26-7P 202827-28-9P 202827-30-3P 202827-33-6P 202827-55-2P 208938-28-7P 208938-44-7P 208938-30-1P 208938-32-3P 208938-46-9P 208938-49-2P 208938-55-0P 208938-56-1P 208938-57-2P 208938-58-3P 208938-59-4P 208938-60-7P 208938-61-8P 208938-62-9P 208938-63-0P 208938-64-1P 208938-65-2P 208938-66-3P 208938-67-4P 208938-68-5P 208938-69-6P 208938-70-9P 208938-71-0P 208938-72-1P 208938-74-3P, 3-Cyano-4-iodo-1-(2,4,6-208938-73-2P trichlorophenyl)pyrazole 208938-75-4P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of cyclopropylpyrazoles with parasiticidal activity) RE.CNT THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD RE (1) Bayer Ag; EP 0280991 A 1988 HCAPLUS (2) May & Baker Ltd; EP 0234119 A 1987 HCAPLUS (3) May & Baker Ltd; EP 0295117 A 1988 HCAPLUS (4) May & Baker Ltd; EP 0295118 A 1988 HCAPLUS (5) Pfizer; WO 9707102 A 1997 HCAPLUS (6) Rhone Poulenc Agrochimie; EP 0780378 A 1997 HCAPLUS IT208937-93-3P RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of cyclopropylpyrazoles with parasiticidal activity) 208937-93-3 HCAPLUS

1H-Pyrazole-3-carbonitrile, 1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-(2,2-dibromocyclopropyl) - (9CI) (CA INDEX NAME)

RN

CN

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L105 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN
AN
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ED
    Entered STN: 25 Apr 1998
ΤI
    Preparation of heterobicyclic herbicides
    Selby, Thomas Paul; Winters, Michael Peter
IN
    E. I. Du Pont de Nemours & Co., USA
PΑ
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    CODEN: USXXAM
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ICS A61K031-535
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os
GΙ
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AB The title compds. [I; X, Y = N, CH; Z = O, C(O), S, S(O), S(O)2, etc.; R1, R2 = H, halo, CN, etc.; R3 = halo, CN, SF5, etc.; R4 = H, halo, CN, etc.; when R3 and R4 are attached to adjacent atoms, R3R4 = (un)substituted OCH2O, C(CH2)2O; R5 = H, halo, CN, etc.; R6 = H, CN, C1-4 alkyl, etc.; R7 = H, halo], useful for controlling undesired vegetation, were prepared Thus, treatment of (4-fluorophenyl)acetone with lithium diisopropylamide mono(tetrahydrofuran) in THF followed by transfering this solution to a solution

Ι

of 2-chloronicotinoyl chloride in THF, reaction of the resulting intermediate with freshly prepared 3-(trifluoromethyl)phenyldiazonium chloride, and treatment of a solution of 1-(chloro-3-pyridinyl)-2-(4-fluorophenyl)-2-{[(trifluoromethyl)phenyl]azo}-1,3-butanedione in THF with 1N NaOH afforded I [X = N; Z = C(O); Y = CH; R1 = R2 = R4 = R6 = R7 = H; R5 = 4-F; R3 = 3-CF3] which showed complete control against chickweed, lambsquarter and morningglory at 2000 g/ha in preemergence tests.

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ST
     herbicide heterobicyclic prepn
IT
     Herbicides
        (preparation of heterobicyclic herbicides)
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     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); SPN (Synthetic
     preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of heterobicyclic herbicides)
     98-16-8, 3-(Trifluoromethyl)aniline 403-43-0, 4-Fluorobenzoyl chloride
ΤТ
     459-03-0, (4-Fluorophenyl)acetone
                                         2578-45-2, 2-Chloro-3,5-
     dinitropyridine
                       2942-59-8, 2-Chloronicotinic acid
                                                           49609-84-9,
     2-Chloronicotinyl chloride
                                  94239-06-2
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of heterobicyclic herbicides)
IT
     42330-59-6P
                   111108-72-6P
                                  205650-24-4P
                                                  205650-25-5P
                                                                 205650-26-6P
     205650-27-7P
                    205650-28-8P
                                   205650-29-9P
                                                   205650-30-2P
                                                                  205650-31-3P
     205650-32-4P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation of heterobicyclic herbicides)
RE.CNT
              THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Anon; EP 555957 A1 1993 HCAPLUS
(2) Anon; EP 634413 A1 1994 HCAPLUS
(3) Blatter; US 3423409 1969 HCAPLUS
(4) Blatter; Tetrahedron Letters 1968, V22, P2701
(5) Elliott; US 4025510 1977 HCAPLUS
(6) Elliott; Can J Chem 1973, V51, P4115 HCAPLUS
(7) Elliott; Can J Chem 1975, V53, P1484 HCAPLUS
(8) Elliott; J Org Chem 1980, V45, P3677 HCAPLUS
(9) Vukof; J Chem Soc, Perk, Trans 1 1977, 2, P192
IT
     205649-92-9P 205649-93-0P 205649-94-1P
     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); SPN (Synthetic
     preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of heterobicyclic herbicides)
RN
     205649-92-9 HCAPLUS
CN
     1H-Pyrido [2,3-e] [1,3,4] oxadiazine, 1-[3-chloro-5-(trifluoromethyl)-2-
     pyridinyl]-6-fluoro-3-(4-fluorophenyl)- (9CI) (CA INDEX NAME)
```

RN 205649-93-0 HCAPLUS

CN 1H-Pyrido[2,3-e][1,3,4]oxadiazine, 6-chloro-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-3-(4-fluorophenyl)- (9CI) (CA INDEX NAME)

RN 205649-94-1 HCAPLUS

CN 1H-Pyrido[2,3-e][1,3,4]oxadiazine, 1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-3-(4-fluorophenyl)- (9CI) (CA INDEX NAME)

L105 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:101493 HCAPLUS

DN 126:117980

ED Entered STN: 13 Feb 1997

TI Preparation of 1-phenyl-1,2,4-triazol-5-ones as pesticides

IN Linker, Karl-Heinz; Findeisen, Kurt; Haas, Wilhelm; Lender, Andreas;

Mueller, Klaus-Helmut; Schallner, Otto; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert

PA Bayer A.-G., Germany

SO Ger. Offen., 50 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM C07D249-12 ICS C07D401-04; C07D403-14; A01N043-653; C07B037-04

ICA C07C243-22; C07C271-62

ICI C07D401-04, C07D213-74, C07D249-12; C07D403-14, C07D249-12, C07D213-74, C07D227-04

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 5

FAN.CNT 1

os

GΙ

MARPAT 126:117980

	PATENT NO.			PATENT NO.																	
ΡI	DE	1952	1162			A1		1996	1212	DE	19	95-	1952	1162		1	9950	609			
	WO	9641	535			A1		1996	1227	WC	19	996-	EP22	87		1	9960	528	<		
		W:	AU,	BB,	BG,	BR,	BY,	CA,	CN,	CZ, H	ΙŪ,	JP,	KR,	KZ,	LK,	MX,	NO,	NZ,			
			PL,	RO,	RU,	SK,	TR,	UA,	US												
		RW:	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR, C	B,	GR,	IE,	IT,	LU,	MC,	NL,	PT,			
										GA, C											
	AU	9661	231			A1		1997	0109	JA	J 19	996-	6123	1		1	9960	528	<		
		7033																			
	EP	8317	05			A1		1998	0401	EI	19	996-	9186	34		1	9960!	528	<		
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	BR	9609	884			Α		1999	0323	BF	19	96-	9884			1:	9960!	528	<		
	JP	1150	7651			T2		1999	0706	JI	19	96-	5025	50		1:	9960	528	<		
		21620						2001	1216	ES	19	96-	9186	34		1:	9960!	528	<		
	US	62589	957			B1		2001	0710	US	19	97-	9735	38		1:	99712	202	<		
PRAI	DE	1995	-1952	2116	2	Α		1995	0609	<											
	WO	1996	-EP22	287		W		1996	0528	<											
CLAS	S																				
PAT	ENT	NO.		CLA	SS	PATE	VT F	AMIL	Y CL	ASSIFI	CAT	CION	COD	ES							
																					
DE 19521162 I		ICM	ICM		249-	12															
				ICS		C07D4	101-	04;	C07D4	103-14	; A	101N	043-	653;	C071	B037	-04				
				ICA				•		271-62											
				ICI						213-74					C07D4	403-1	14,				
					1	C07D2	249-	12,	C07D2	213-74	, C	07D	227-	04							

$$R^2$$
 R^1
 NO_2
 NO_2

AB Title compds. [I; A = N or CR; R = H, halo, alkyl, (di) (alkyl) carbamoyl, etc.; R1 = halo, alkyl, alkoxy, (di) (alkyl) carbamoyl, etc.; R2 = H, halo, (cyclo) alkyl, etc.; R3 = NO2, haloalkyl, haloalkoxy, SO0-2R6, etc.; R4 (cyclo) alkyl, aryl(alkyl), SO0-2R6, etc.; R5 = H, alk(en)yl, alkoxy, aryl, SO0-2R6, etc.; R6 = (cyclo) alkyl, aryl, etc.] were prepared Thus,

II

3-trifluoromethyl-4-propenyl-1H-1,2,4-triazol-5-one was arylated by 2,6-dinitro-4-trifluoromethyl-1-chlorobenzene to give title compound II. Data for biol. activity of I were given.

ST phenyltriazolone prepn pesticide

IT Pesticides

(1-phenyl-1,2,4-triazol-5-ones) IT 128980-04-1P 186042-00-2P 186042-01-3P 186042-02-4P 186042-03-5P 186042-04-6P 186042-05-7P 186042-06-8P 186042-07-9P 186042-08-0P 186042-09-1P 186042-10-4P **186042-11-5P** 186042-12-6P 186042-13-7P 186042-14-8P 186042-15-9P 186042-16-0P 186042-17-1P 186042-18-2P 186042-19-3P 186042-20-6P 186042-21-7P 186042-22-8P 186042-23-9P 186042-24-0P 186042-25-1P 186042-26-2P 186042-27-3P 186042-28-4P 186042-31-9P 186042-33-1P 186042-35-3P 186042-37-5P 186042-39-7P 186042-40-0P 186042-41-1P 186042-42-2P 186042-43-3P 186042-44-4P 186042-45-5P 186042-46-6P 186042-47-7P 186042-48-8P 186042-51-3P 186042-49-9P 186042-50-2P 186042-52-4P 186042-53-5P 186042-54-6P 186042-55-7P 186042-56-8P 186042-57-9P 186042-58-0P 186042-59-1P 186042-60-4P 186042-61-5P 186042-62-6P 186042-63-7P 186042-64-8P 186042-65-9P 186042-66-0P 186042-67-1P 186042-68-2P 186042-69-3P 186042-70-6P 186042-71-7P 186042-72-8P 186042-73-9P 186042-74-0P 186042-75-1P 186042-76-2P 186042-77-3P 186042-78-4P 186042-80-8P 186042-79-5P 186042-81-9P 186042-82-0P 186042-83-1P 186042-84-2P 186042-85-3P 186042-86-4P 186042-87-5P 186042-88-6P 186042-89-7P 186042-90-0P 186042-92-2P 186042-94-4P 186042-96-6P 186043-02-7P 186042-98-8P 186043-00-5P 186043-04-9P 186043-06-1P 186043-07-2P 186043-08-3P 186043-09-4P 186043-10-7P 186043-11-8P 186043-12-9P 186043-13-0P 186043-14-1P 186043-15-2P 186043-16-3P 186043-17-4P 186043-18-5P 186043-19-6P 186043-20-9P 186043-22-1P 186043-24-3P 186043-26-5P 186043-27-6P 186043-28-7P 186043-30-1P 186043-37-8P 186043-31-2P 186043-33-4P 186043-35-6P 186043-40-3P 186043-47-0P 186043-42-5P 186043-45-8P 186043-44-7P 186043-48-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 1-phenyl-1,2,4-triazol-5-ones as pesticides)

IT 393-75-9 164352-36-7

186043-49-2P

RL: RCT (Reactant); RACT (Reactant or reagent)

186043-50-5P

(preparation of 1-phenyl-1,2,4-triazol-5-ones as pesticides)

IT 186042-11-5P

RN

CN

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 1-phenyl-1,2,4-triazol-5-ones as pesticides)

186042-11-5 HCAPLUS

3H-1,2,4-Triazol-3-one, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-cyclopropyl-2,4-dihydro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

L105 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:995031 HCAPLUS

DN 124:86998

```
Entered STN: 22 Dec 1995
     2-Cyano-1,3-dione derivatives useful as herbicides
ΤI
     Geach, Neil; Hawkins, David William; Pearson, Christopher John; Smith,
IN
     Philip Henry Gaunt; White, Nicolas
PΑ
     Rhone-Poulenc Agriculture Ltd., UK
SO
     PCT Int. Appl., 47 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM C07D263-56
         A01N043-76; C07D317-46; A01N043-30; C07D263-58; C07D277-64;
          A01N043-78; C07D307-79; C07D317-54; C07D333-64; C07D213-70;
          C07D213-61; C07D231-12
     28-6 (Heterocyclic Compounds (More Than One Hetero Atom))
CC
     Section cross-reference(s): 5
FAN.CNT 2
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                    DATE
                         ____
                                _____
                                            _____
                                                                    _____
PΙ
     WO 9525099
                         A1
                                19950921
                                            WO 1995-EP950
                                                                    19950314 <--
        W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI,
             SK, TJ, TT, UA, UG, US, UZ, VN
         RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,
             LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
             SN, TD, TG
     AU 9518942
                                            AU 1995-18942
                          Α1
                                19951003
                                                                    19950314 <--
PRAI GB 1994-5229
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     WO 1995-EP950
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CLASS
                 CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
                ____
                        ______
 WO 9525099
                 ICM
                        C07D263-56
                        A01N043-76; C07D317-46; A01N043-30; C07D263-58;
                 ICS
                        C07D277-64; A01N043-78; C07D307-79; C07D317-54;
                        C07D333-64; C07D213-70; C07D213-61; C07D231-12
os
     CASREACT 124:86998; MARPAT 124:86998
GI
```

The invention relates to 2-cyano-1,3-dione derivs. R1COCH(CN)COAr [I; Ar = certain (un)substituted monocyclic or fused bicyclic heterocyclic systems; R1 = (un)substituted C3-6 cycloalkyl] and their use as herbicides. Fifteen I and over 50 intermediates were prepared For example, ring cleavage of 4-(4-chloro-3-methoxybenzo[b]thien-5-ylcarbonyl)-5-cyclopropylisoxazole [preparation given] by NaOMe in MeOH at room temperature gave

title compound II. At 250 g/ha postemergence, II gave \geq 90% control of Echinochloa crus-galli.

ST cyano dione prepn herbicide; propanedione benzoxazolyl benzodioxolyl prepn herbicide

IT Herbicides

(preparation of cyano dione derivs. as herbicides)

Ι

IT 29681-39-8P, Methyl 5-methoxy-2-pyridinecarboxylate 29682-14-2P, Methyl 5-nitro-2-pyridinecarboxylate 30651-24-2P, 5-Nitro-2-pyridinecarboxylic

```
60891-70-5P, Diethyl 2-(5-nitropyridin-2-yl)malonate 74470-44-3P,
                                           104066-09-3P,
Methyl 5-methylthio-2-pyridinecarboxylate
2,5-Dichloro-1-((trimethylacetyl)amino)benzene
                                                  120100-42-7P,
2,4-Dichloro-3-(methoxycarbonyl)benzoic acid
                                                143096-86-0P,
2,2-Difluoro-1,3-benzodioxole-4-carboxylic acid chloride
                                                            146982-77-6P
146982-85-6P, 2-(3-Cyclopropyl-1,3-dioxoprop-1-yl)-5-methylthiopyridine
155377-00-7P, 3-(3-Cyclopropyl-1,3-dioxoprop-1-yl)-2-(methylthio)pyridine
155377-02-9P, 4-(3-Cyclopropyl-1,3-dioxoprop-1-yl)-1-ethyl-3-
trifluoromethylpyrazole
                         155377-11-0P, 1-Ethyl-3-trifluoromethylpyrazole-
4-carboxylic acid
                   155377-12-1P, 4-Ethoxycarbonyl-1-ethyl-3-
trifluoromethylpyrazole 155377-16-5P, 1-Ethyl-3-trifluoromethylpyrazole-
                                           162505-67-1P 162505-68-2P
4-carboxylic acid chloride
                            162505-65-9P
162505-69-3P
              162505-74-0P
                              162505-78-4P
                                             162505-87-5P
                                                             162506-01-6P
162506-04-9P, 4-(3-Cyclopropyl-1,3-dioxoprop-1-yl)-2,2-difluoro-1,3-
                             162506-15-2P
benzodioxole 162506-14-1P
                                            162506-16-3P
                                                             162506-17-4P
               162506-39-0P, Methyl 4-chloro-3-methoxybenzo[b]thiophene-5-
162506-18-5P
              162506-40-3P, 4-Chloro-3-hydroxybenzo[b]thiophene-5-
carboxylate
                 162506-41-4P, Dimethyl 4-chloro-3-
carboxylic acid
hydroxybenzo[b]thiophene-2,5-dicarboxylate
                                             162506-42-5P, Dimethyl
                          162506-43-6P, 2,4-Dichloro-3-
2,4-dichloroisophthalate
(methoxycarbonyl)benzoyl chloride
                                   162506-46-9P, 2,2-Difluoro-4-
methylthio-1,3-benzodioxole-5-carboxylic acid chloride
                                                          162506-54-9P,
2,2-Difluoro-4-methylthio-1,3-benzodioxole-5-carboxylic acid
162506-61-8P, 4-Methylthio-1,3-benzodioxole-5-carboxylic acid
162506-65-2P, 4-Chloro-3-methoxybenzo[b]thiophene-5-carboxylic acid 162506-66-3P, 2-tert-Butyl-4-methylthiobenzoxazole-7-carboxylic acid
162506-67-4P, 2-tert-Butyl-4-chlorobenzoxazole-7-carboxylic acid 162506-68-5P, Methyl 2-tert-butyl-4-chlorobenzoxazole-7-carboxylate
162506-69-6P, Methyl 2-tert-butyl-4-methylthio-1,3-benzoxazole-7-
carboxylate
              172527-56-9P
                            172527-57-0P 172527-58-1P
172527-59-2P, 5-Cyclopropyl-4-(1,3-benzodioxol-4-oyl)isoxazole
                             172527-62-7P, 4-(1,3-Benzodioxol-5-oyl)-5-
172527-60-5P
              172527-61-6P
                      172527-63-8P
cyclopropylisoxazole
                                     172527-64-9P, 5-(3-Cyclopropyl-1,3-
dioxoprop-1-yl)-2,3-dihydrobenzo[b]furan 172527-65-0P
                                                          172527-66-1P,
5-(3-Cyclopropyl-1,3-dioxoprop-1-yl)-1,3-benzodioxole
                                                       172527-67-2P
              172527-69-4P, 2-tert-Butyl-4-chlorobenzoxazole-7-carboxylic
172527-68-3P
                172527-70-7P, 3-Chloro-5-trifluoromethylpyridine-2-
acid chloride
carboxylic acid hydrochloride 172527-71-8P, Diethyl 2-(3-chloro-5-
trifluoromethylpyridin-2-yl)malonate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (intermediate; preparation of cyano dione derivs. as herbicides)
                              172527-43-4P
               172527-42-3P
                                              172527-44-5P
                                                             172527-45-6P
172527-41-2P
                              172527-48-9P
               172527-47-8P
172527-46-7P
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172527-51-4P
               172527-52-5P
                              172527-53-6P
                                             172527-54-7P
                                                             172527-55-8P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except
adverse); BSU (Biological study, unclassified); SPN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
   (preparation of cyano dione derivs. as herbicides)
74-93-1, Methanethiol, reactions 95-82-9, 2,5-Dichloroaniline
105-53-3, Diethyl malonate 122-51-0, Triethyl orthoformate
                                                               624-92-0.
                    656-46-2, 2,2-Difluoro-1,3-benzodioxole-5-carboxylic
Dimethyl disulfide
       765-43-5, Methyl cyclopropyl ketone 2365-48-2, Methyl
               4548-45-2, 2-Chloro-5-nitropyridine 4637-24-5
thioglycolate
5188-07-8, Sodium thiomethoxide 5470-11-1, Hydroxylamine hydrochloride
14920-87-7, Methyl 2,6-dichlorobenzoate 55745-71-6, 2,3-
Dihydrobenzo[b]furan-5-carboxylic acid chloride
                                                  74470-44-3, Methyl
                                     126120-85-2, 2,2-Difluoro-1,3-
5-methylthiopyridine-2-carboxylate
benzodioxole-4-carboxylic acid
                                134302-07-1, tert-Butyl
3-cyclopropyl-3-oxopropanoate
                                155376-66-2, 5-Cyclopropyl-4-(2-
(methylthio)pyridin-3-oyl)isoxazole
                                      155376-89-9
                                                    155377-19-8, Ethyl
3-trifluoromethylpyrazole-4-carboxylate
                                          172527-72-9
RL: RCT (Reactant); RACT (Reactant or reagent)
```

TТ

TT

(starting material; preparation of cyano dione derivs. as herbicides) IT 172527-58-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of cyano dione derivs. as herbicides)

RN 172527-58-1 HCAPLUS

CN Methanone, [5-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4isoxazolyl]cyclopropyl- (9CI) (CA INDEX NAME)

L105 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

1991:408811 HCAPLUS AN

115:8811 DN

Entered STN: 12 Jul 1991 ED

Aryl[(imidazolylaryl)alkyl]triazoles and aryl(imidazolylaryl)triazoles: TIpreparation and pesticidal activity

Willis, Robert John; O'Mahony, Mary Josephine; Roberts, Bryan Glyn IN

Schering Agrochemicals Ltd., UK PΑ

Eur. Pat. Appl., 26 pp. SO CODEN: EPXXDW

Patent

DT

English LA

ICM C07D403-04 IC ICS C07D403-06; C07D403-12; A01N043-50; A01N043-647

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 1, 5

FAN. CNT 1

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ΡI	EP	412849			A2	-	1991	0213	EP	1990-308	857		19900810	<
	EP	412849			A3		1992	0415						
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	DD	298101			A5		1992	0206	DD	1990-343	147		19900730	<
	IL	95307			A1		1995	1127	$_{ m IL}$	1990-953	07		19900807	<
	US	5109012			Α		1992	0428	US	1990-564	729		19900808	<
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	HU	54462			A2		1991	0328	HU	1990-495	1		19900809	<
	HU	208228			В		1993	0928						
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	ZA	9006289			Α			0626		1990-628			19900809	
		9003935			Α			0903		1990-393			19900809	
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		95379			С		1996							
		1049341			Α		1991		CN	1990-106	995		19900810	<
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Page 60
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qazi - 10 / 049980
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                        T3
                             19960401
                                        ES 1990-308857
    ES 2082828
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    US 5189053
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PRAI GB 1989-18314
                             19900324
    GB 1990-6653
    US 1990-564729
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CLASS
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EP 412849
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                      C07D403-04
               TCS
                      C07D403-06; C07D403-12; A01N043-50; A01N043-647
OS
    MARPAT 115:8811
GI
```

Pesticidal 1-aryl-4-[[(2-imidazolyl)aryl]alkyl]-1,2,3-triazoles, 2-aryl-4-[(2-imidazolyl)aryl]alkyl]-1,2,3-triazoles, 2-aryl-4-[(2-imidazolyl)aryl]-1,2,3-triazoles, and 1-aryl-4-[(2-imidazolyl)aryl]-1,2,3-triazoles are claimed. The reaction of 2,6,4-Cl2(F3C)C6H3NHNH2 with 2-oxopropanedial 1,3-dioxime gave the hydrazone, which was subsequently acetylated. This acetate was cyclocondensed to give 2-[(2,6-dichloro-4-(trifluoromethyl)phenyl]-2H-1,2,3-triazole-4-carboxaldehyde oxime, which was hydrolyzed to give the aldehyde. Condensation of the latter with diaminomaleonitrile gave 2-[(2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[[(2-amino-1,2-dicyanoethenyl)imino]methyl]-2H-1,2,3-triazole, which cyclized in the presence of DDQ to triazole I. I had pesticidal activity against Lucilia sericata (sheep blowfly), Nilaparvata lugens Stal (brown rice hopper), Tetranychus urticae Koch (two-spotted mite), and anthelmintic activity against Heligmosomoides polygyrus.

pesticide arylimidazolylarylalkyl triazole; triazole arylimidazolylarylalkyl pesticide; imidazole triazolylalkylaryl pesticide; anthelmintic arylimidazolylarylalkyl triazole

IT Anthelmintics

([dichloro(trifluoromethyl)phenyl](dicyanoimidazolyl)triazole)

IT Pesticides

(agrochem., aryl[(imidazolylaryl)alkyl]triazoles and aryl(imidazolylaryl)triazoles as)

IT 134183-89-4

RL: RCT (Reactant); RACT (Reactant or reagent)
 (amination of)

IT 1122-28-7, 1H-Imidazole-4,5-dicarbonitrile

Ι

RL: RCT (Reactant); RACT (Reactant or reagent)
(bromination of)

94-05-3, Ethyl 2-cyano-3-ethoxyacrylate 141-97-9, Ethyl acetoacetate RL: RCT (Reactant); RACT (Reactant or reagent) (condensation of)

IT 134184-39-7

RL: RCT (Reactant); RACT (Reactant or reagent) (condensation of, with diaminomaleonitrile)

```
86398-94-9, 2,6-Dichloro-4-(trifluoromethyl) phenylhydrazine
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation reaction of)
     1187-42-4, Diaminomaleonitrile
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation reaction of, with aryltriazolecarboxaldehyde)
                 14109-74-1
IT
     4949-44-4
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation reaction of, with dichloro(trifluoromethyl)aniline)
IT
     75701-87-0
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation reaction of, with dichloro(trifluoromethyl)hydrazine)
                  94609-23-1
IT
     41886-31-1
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation reaction of, with dichloro(trifluoromethyl)phenylhydrazin
IT
     1513-50-4, 2-Nitro-4-(trifluoromethyl)phenylhydrazine
                                                              5329-12-4,
     2,4,6-Trichlorophenylhydrazine
                                     80025-72-5 85634-76-0,
                                           96406-91-6, 3-Chloro-5-
     4-Bromo-2,6-dichlorophenylhydrazine
     (trifluoromethyl) phenylhydrazine
                                        99479-69-3
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (condensation reaction of, with oxo dioxime)
                                                     99479-65-9
IT
     400-98-6, 2-Nitro-4-(trifluoromethyl)aniline
     RL: PROC (Process)
        (conversion of, to arylmethyltriazolylmethanol)
IT
     134184-16-0
     RL: PROC (Process)
        (conversion of, to nitrile)
IT
     134183-57-6
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (coupling reaction of, with (arylmethyl)triazolethiol)
     129366-56-9
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (coupling reaction of, with bromodicyanosilylimidazole)
     107-19-7, 2-Propyn-1-ol
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (cyclocondensation of, with azidodichloro(trifluoromethyl)benzene)
     123-54-6, 2,4-Pentanedione, reactions
                                            7152-15-0, Ethyl
IT
                               17094-34-7, Ethyl 4,4-dimethyl-3-oxopentanoate
     4-methyl-3-oxopentanoate
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (cyclocondensation of, with dichloro(trifluoromethyl)phenylhydrazine)
TT
     99479-46-6
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (diazotization and formylation of)
     24279-39-8, 2,6-Dichloro-4-(trifluoromethyl)aniline
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (diazotization and reaction of, with Et acetoacetate)
IT
     129366-63-8
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (hydrolysis of)
IT
     106259-86-3
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (methylation of)
IT
     134184-12-6
                   134184-20-6
                                 135319-60-7
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (oxidation of)
     118031-67-7P
IT
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and Mannich reaction of)
IT
     134184-43-3P
                   134184-54-6P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
```

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(preparation and acetylation of)
IT
    134184-36-4P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and bromination and carboxylation of)
IT
    134183-70-3P
                   134183-71-4P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation and bromination and pesticidal activity of)
IT
    111710-07-7P
                   134183-63-4P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and bromination of)
                   134184-33-1P
IT
    134184-30-8P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation and condensation of, with diaminomaleonitrile)
IT
    40953-34-2P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and condensation reaction of, with aryltriazolecarboxaldehyde)
                    134183-28-1P
                                   134183-31-6P
                                                   134183-33-8P
                                                                  134183-38-3P
TT
    129366-62-7P
    134183-41-8P
                    134183-49-6P
                                   134183-66-7P
                                                   134183-72-5P
                                                                  134183-81-6P
                                                   134184-21-7P
                                   134183-97-4P
    134183-84-9P
                    134183-87-2P
                                                                  134184-27-3P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and condensation reaction of, with diaminomaleonitrile)
IT
    113049-04-0P
                   118030-38-9P
                                   134183-91-8P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation and conversion of, to pyrazolecarboxaldehyde)
TТ
     134183-61-2P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation and conversion to (dicyanoimidazolyl)pyrazole derivative)
TT
    134183-69-0P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation and cyanation and pesticidal activity of)
                    134183-09-8P
                                                   134183-13-4P
IT
                                   134183-11-2P
                                                                  134183-15-6P
    134183-08-7P
                                                   134183-34-9P
    134183-17-8P
                    134183-29-2P
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    134184-28-4P
    134213-41-5P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and cyclocondensation reaction of)
IT
    133152-04-2P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation and cyclocondensation reaction of with propynol)
TT
    134183-06-5P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and cyclocondensation reaction of, arylimidazolyltriazole from)
IT
    134183-04-3P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and cyclocondensation reaction of, triazole from)
IT
    134184-07-9P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and deoxygenation of)
IT
    134183-58-7P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation and desilylation and pesticidal activity of)
IT
    134183-77-0P
                    134184-08-0P
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and desilylation of)
IT
                    118030-30-1P
                                   134184-24-0P
     106204-62-0P
                                                   134184-26-2P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and formylation of)
IT
     134184-55-7P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and hydrolysis and cyclocondensation of)
IT
     134183-05-4P
                    134183-80-5P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and hydrolysis of)
TT
     134183-18-9P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation and methylation and pesticidal activity of)
TT
     134183-76-9P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and methylthiolation and desilylation of)
TT
     134184-18-2P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation and nitration and pesticidal activity of)
IT
     135319-61-8P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation and oxidation and pesticidal activity of)
IT
     129366-55-8P
                    134183-30-5P
                                   134183-37-2P
                                                   134183-40-7P
                                                                  134183-48-5P
     134183-65-6P
                    134184-38-6P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and oxidation of)
TT
     134184-42-2P
                    134184-46-6P
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     (Reactant or reagent)
        (preparation and oximation of)
IT
                    134183-20-3P 134183-21-4P
                                                 134183-22-5P
     134183-19-0P
                    134183-25-8P
                                   134183-26-9P
                                                   134183-27-0P
     134183-23-6P
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     134183-44-1P
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     134183-54-3P
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     134184-01-3P
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     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
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     preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation and pesticidal activity of)
IT
     134184-00-2P
                    134184-02-4P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and reaction of, with aryl(mercaptomethyl)triazole)
     134183-52-1P
IT
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and reaction of, with dimethoxyethylamine)
TT
     89522-38-3P
                   134183-03-2P
                                  134183-07-6P
                                                  134183-10-1P
                                                                 134183-12-3P
     134183-14-5P
                    134183-16-7P
                                   134183-35-0P
                                                   134184-14-8P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and reactions of)
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134184-47-7P
                                   134213-40-4P
IT
     134184-44-4P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and reduction and cyclocondensation reaction of)
TT
     134184-25-1P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and reduction and methylation of)
                                   134184-37-5P
IT
     134183-64-5P
                    134183-83-8P
                                                   134184-45-5P
                                                                  134184-48-8P
     134184-50-2P
                    134184-51-3P
                                   134184-53-5P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and reduction of)
IT
     50847-09-1P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and silylethoxymethylation of)
                    134183-24-7P
                                   134183-92-9P
TT
     114868-61-0P
                                                   134184-15-9P
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        (preparation of)
TT
     134183-53-2P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation, reactions and pesticidal activity of)
TT
     22483-09-6
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with Et aryltriazolecarboximidate)
                  134184-04-6
TT
     129366-75-2
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with allylbromodicyanoimidazole)
     76513-69-4
TΤ
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with aryl(bromonitroimidazolyl)triazole)
IT
     431-67-4, 1,1-Dibromo-3,3,3-trifluoroacetone
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with aryltriazolecarboxaldehyde)
IT
     3490-92-4, Methyl 3,3-bis(methylthio)-2-cyanoacrylate
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with dichloro(trifluoromethyl)hydrazine)
IT
     608-31-1, 2,6-Dichloroaniline
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with propynol)
IT
     134183-21-4P
     RL: AGR (Agricultural use); BAC (Biological activity or effector, except
     adverse); BSU (Biological study, unclassified); SPN (Synthetic
     preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation and pesticidal activity of)
     134183-21-4 HCAPLUS
RN
CN
     1H-Imidazole-4,5-dicarbonitrile, 2-[2-[3-chloro-5-(trifluoromethyl)-2-
     pyridinyl]-2H-1,2,3-triazol-4-yl]- (9CI) (CA INDEX NAME)
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AN
    1989:457738 HCAPLUS
DN
    111:57738
    Entered STN: 20 Aug 1989
ED
TI
    1,2,4-Triazole derivatives, their preparation, and insecticides containing
    them as active ingredients
    Nakayama, Yoshinori; Yano, Toshihiko
IN
PA
    Sumitomo Chemical Co., Ltd., Japan
SO
    Jpn. Kokai Tokkyo Koho, 9 pp.
    CODEN: JKXXAF
DT
    Patent
LA
    Japanese
    ICM C07D249-08
ICS A01N043-653; C07D249-12; C07D401-04
IC
CC
    28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
    Section cross-reference(s): 5
FAN.CNT 1
    PATENT NO.
                    KIND DATE
                                     APPLICATION NO.
                                      -----
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                           _____
                                                          -----
    JP 63290870
                     A2
                            19881128 JP 1987-129405
                                                         19870525 <--
PRAI JP 1987-129405
                           19870525 <--
CLASS
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
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JP 63290870
             ICM
                    C07D249-08
              ICS A01N043-653; C07D249-12; C07D401-04
OS
    MARPAT 111:57738
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$$R^3$$
 N
 R^2
 R^2

GΙ

IT

The title compds. (I; R1 = CF3-substituted 2-ClC6H4 or 2-chloro-2-pyridyl; R2 = H, lower alkyl, Ph; R3 = H, lower alkyl, lower alkylthio, lower alkoxy, substituted PhS) were prepared as insecticides. A stirred mixture of 2,3-dichloro-5-trifluoromethylpyridine 1.30, 3-tert-butyl-5-methylthio-1,2,4-triazole 1.08, and K2CO3 1.88 g in 80 mL DMF was heated at 180° for 8 h to give 67% I (R1 = 3-chloro-5-trifluoromethyl-2pyridinyl, R2 = CMe3, R3 = SMe) (II). All thirteen I tested at 500 ppm gave 100% fatality against adult Musca domestica vicina. A wettable powder containing II 20, fenitrothion 10, Ca ligninsulfonate 8, lauryl Na sulfate 2, and synthetic silica hydrate 65 parts was formulated. STtriazole deriv prepn insecticide ITInsecticides (triazole derivs.) TΤ 58876-19-0, 3-tert-Butyl-5-methylthio-1,2,4-triazole RL: RCT (Reactant); RACT (Reactant or reagent) (condensation of, with dichloro(trifluoromethyl)pyridine) IT 630-19-3, Pivalaldehyde RL: RCT (Reactant); RACT (Reactant or reagent) (condensation of, with phenylhydrazine derivative) 86398-98-3 TΤ RL: RCT (Reactant); RACT (Reactant or reagent)

328-84-7, 3,4-Dichlorobenzotrifluoride 69045-84-7, 2,3-Dichloro-5-

(condensation of, with pivalaldehyde)

RL: RCT (Reactant); RACT (Reactant or reagent)

trifluoromethylpyridine

(condensation of, with triazole derivative)

IT 333-20-0, Potassium thiocyanate

RL: RCT (Reactant); RACT (Reactant or reagent)

(cyclocondensation of, with pivalaldehyde phenylhydrazone derivative)

IT 121644-73-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclocondensation of, with potassium thiocyanate)

IT 121644-74-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and dehydrogenation of)

IT 121410-31-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and S-methylation of, by Me iodide)

IT 121644-59-5P 121644-60-8P 121644-61-9P 121644-62-0P 121644-63-1P 121644-64-2P 121644-65-3P 121644-66-4P 121644-67-5P 121644-68-6P 121644-69-7P 121644-70-0P 121644-71-1P 121644-72-2P RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as insecticide)

IT 121644-72-2P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as insecticide)

RN 121644-72-2 HCAPLUS

CN Pyridine, 3-chloro-2-[5-(methylthio)-3-phenyl-1H-1,2,4-triazol-1-yl]-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

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FILE COVERS 1907 - 24 Aug 2004 VOL 141 ISS 9 FILE LAST UPDATED: 23 Aug 2004 (20040823/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
L81
     2001:137193 HCAPLUS
AN
DN
     134:178467
ED
     Entered STN: 25 Feb 2001
TΤ
     Preparation of pyridine derivatives as phytopathogenic fungicides
     Cooke, Tracey; Hardy, David; Moloney, Brian Anthony; O'Mahony, Mary
IN
     Josephine; Pettett, Michael George; Patel, Gita; Schnatterer, Stefan
PΑ
     Aventis CropScience GmbH, Germany
     PCT Int. Appl., 57 pp.
SO
     CODEN: PIXXD2
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     ICM C07D213-61
          C07D213-89; C07D405-12; C07D213-77; C07D401-12; C07D213-81;
          C07D213-64; C07D409-12; C07D417-12; C07D498-04; C07D401-06;
          A01N043-40
CC
     27-16 (Heterocyclic Compounds (One Hetero Atom))
     Section cross-reference(s): 5
FAN.CNT 1
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PATENT NO.
                       KIND DATE
                                         APPLICATION NO.
                                                               DATE
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                        A1
                              20010222
                                         WO 2000-EP8268
PΤ
     WO 2001012604
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WO 2000-EP8268 W 20000811 <--
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Ι

The title compds. A1LA2 [A1 = (un)substituted 2-pyridyl or its N-oxide; Ar2 = (un)substituted heterocyclyl, carbocyclyl; L = a 3-atom linker selected from CHR1NR3CHR2, NR3NR4C:X, C:XNR3CHR1, etc. (wherein A1 is attached to the left hand side of linker L); R1, R2 = CN, NO2, halo, etc.; R3, R4 = CN, NO2, alkyl, etc.; any of R1-R4, together with the interconnecting atoms, can form a 5-6 membered ring with any other R1-R4, or any R1-R4, together with the interconnecting atoms can form a 5-6 membered ring with A2; X = O, S, N(alkyl), etc.], useful as phytopathogenic fungicides, were prepared Thus, reacting 1-(3,4-difluorophenyl)-1-ethanamine with 3-chloro-5- (trifluoromethyl)pyridine-2-carboxaldehyde in the presence of Et3N in CH(OMe)3 followed by addition of NaBH3CN/THF and AcOH afforded the title compound I which showed moderate to total control against Leptosphaeria nodorum at 500 ppm or less.

ST pyridine prepn agrochem fungicide

IT Fungicides

IT

(agrochem.; preparation of pyridine derivs. as phytopathogenic fungicides) 326807-13-0P 326808-86-0P RL: AGR (Agricultural use); BAC (Biological activity or effector, except

adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

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(preparation of pyridine derivs. as phytopathogenic fungicides)
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        (preparation of pyridine derivs. as phytopathogenic fungicides)
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     86-55-5, 1-Naphthoic acid
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     2-Chlorobenzoic acid
                            608-31-1, 2,6-Dichloroaniline
                                                            614-21-1,
                           1777-82-8, 2,4-Dichlorobenzyl alcohol
     2-Nitroacetophenone
                             3886-69-9 4659-45-4, 2,6-Dichlorobenzoyl
     2-Nitrophenylhydrazine
               69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine
     chloride
     70591-20-7, [(Diphenylmethylene)amino]methyl cyanide
                                                            75408-89-8,
                             79456-26-1, 2-Amino-3-chloro-5-
     4-Acetylbiphenyl oxime
     trifluoromethylpyridine
                              89570-82-1 118386-83-7
                                                          175277-50-6,
     3-Chloro-5-trifluoromethylpyridine-2-carboxaldehyde
                                                           175277-52-8,
     3-Chloro-2-(chloromethyl)-5-trifluoromethylpyridine
                                                           276875-21-9,
     1-(3,4-Difluorophenyl)-1-ethanamine
                                                         326809-09-0
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     326809-10-3, 2-(3-Bromo-4-methoxyphenyl)-1H-imidazole
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of pyridine derivs. as phytopathogenic fungicides)
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              THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
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RE
(1) Agrevo Uk Ltd; GB 2307177 A 1997 HCAPLUS
(2) Agrevo Uk Ltd; WO 9907687 A 1999 HCAPLUS
(3) Anon; PATENT ABSTRACTS OF JAPAN 1983, V007(114), PC-166
(4) Anon; PATENT ABSTRACTS OF JAPAN 1989, V013(379), PC-628
(5) Anon; PATENT ABSTRACTS OF JAPAN 1990, V014(310), PC-0736
(6) Anon; PATENT ABSTRACTS OF JAPAN 1992, V016(148), PC-0928
(7) Anon; PATENT ABSTRACTS OF JAPAN 1995, V1995(04)
(8) Basf Ag; EP 0350691 A 1990 HCAPLUS
(9) Basf Ag; WO 9710215 A 1997 HCAPLUS
(10) Bayer Ag; EP 0573883 A 1993 HCAPLUS
(11) Briggs, G; WO 9850352 A 1998 HCAPLUS
(12) Ciba Geigy Ag; EP 0288976 A 1988 HCAPLUS
(13) Ciba Geigy Ag; EP 0577555 A 1994 HCAPLUS
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(15) Dow Chemical Co; EP 0287691 A 1988 HCAPLUS
(16) Hamprecht, G; WO 9842671 A 1998 HCAPLUS
(17) Ihara Chemical Ind Co; EP 0648752 A 1995 HCAPLUS
(18) Ishihara Sangyo Kaisha Ltd; JP 02104575 A 1990 HCAPLUS
(19) Ishihara Sangyo Kaisha Ltd; JP 07025853 A 1995 HCAPLUS
(20) Ishihara Sangyo Kk; JP 58035174 A 1983 HCAPLUS
(21) Kyowa Hakko Kogyo Kk; EP 0882717 A 1998 HCAPLUS
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(22) La Roche, H; EP 0270061 A 1988 HCAPLUS

- (23) Minn; HCAPLUS
- (24) Minn; SYNLETT 1991, 2, P115 HCAPLUS
- (25) Mitsubishi Petrochem Co Ltd; JP 04005282 A 1992 HCAPLUS
- (26) Mitsui Petrochem Ind Ltd; JP 01131146 A 1989 HCAPLUS
- (27) Moloney Brian Anthony; WO 9942447 A 1999 HCAPLUS
- (28) Sumitomo Chemical Co; EP 0469711 A 1992 HCAPLUS (29) Sumitomo Chemical Co; EP 0648729 A 1995 HCAPLUS
- (30) Uniroyal Chem Co Inc; WO 9207848 A 1992 HCAPLUS
- 326807-66-3P 326807-73-2P 326807-94-7P 326808-09-7P 326808-10-0P 326808-21-3P

326808-52-0P 326808-53-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine derivs. as phytopathogenic fungicides)

RN326807-66-3 HCAPLUS

Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-CNpyridinyl]hydrazide (9CI) (CA INDEX NAME)

ВИ 326807-73-2 HCAPLUS

CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)

326807-94-7 HCAPLUS RN

2-Pyridinecarboxamide, 3-chloro-N-[(2,6-dichlorophenyl)methyl]-5-CN (trifluoromethyl) - (9CI) (CA INDEX NAME)

RN 326808-09-7 HCAPLUS

Pyridine, 3-chloro-2-[[(2,6-dichlorophenyl)methoxy]methyl]-5-CN (trifluoromethyl) - (9CI) (CA INDEX NAME)

$$F_3C$$
 $C1$
 CH_2-O-CH_2
 $C1$
 $C1$

RN 326808-10-0 HCAPLUS

CN Urea, N-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-N'-(2,6-dichlorophenyl)(9CI) (CA INDEX NAME)

RN 326808-21-3 HCAPLUS

CN Benzaldehyde, 2,6-dichloro-, O-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxime (9CI) (CA INDEX NAME)

RN 326808-52-0 HCAPLUS

CN Benzeneacetonitrile, 2,6-dichloro- α -[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]imino]-, (α E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 326808-53-1 HCAPLUS

CN Benzeneacetonitrile, 2,6-dichloro- α -[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]imino]-, (α Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

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C1 CN C1 CF3
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L81 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
AN
     2001:136944 HCAPLUS
DN
     134:174247
ED
     Entered STN: 25 Feb 2001
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     Preparation of fungicidal nitrogen compounds.
     Cooke, Tracey; Ekwuru, Tennyson; Hardy, David; Millward, Peter; Moloney,
IN
     Brian; Pettinger, Andrew; Thomas, Peter Stanley; Turner, Richar Michael
PA
     Aventis CropScience GmbH, Germany
SO
     PCT Int. Appl., 42 pp.
     CODEN: PIXXD2
DT
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     ICM A01N043-40
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          A01N043-50; A01N043-78; A01N043-42; A01N043-60; A01N053-00;
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CC
     Section cross-reference(s): 27
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                                           APPLICATION NO.
                                                                 DATE
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AB
     The fungicidal nitrogen compds. A1CR1R2NR3LA2 and A1CR1R2N:CYA2 [A1 =
     (un)unsubstituted 2-pyridyl or its N-oxide; A2 = (un)substituted
     heterocyclyl or carbocyclyl; R1, R2 = alkyl, alkenyl, cyano, nitro, halo,
     etc.; L = CO, CS, SO2, etc., Y = halo, alkoxy, alkylthio, etc.] are prepared
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     fungicide nitrogen compd prepn
                                                      326476-24-8P
IT
     6635-41-2P, 2-Nitrobenzaldoxime
                                        35447-75-7P
     326476-25-9P
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        (intermediate in preparation of amide fungicide)
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     study); PREP (Preparation); USES (Uses)
        (preparation as fungicide)
     106-95-6, Allyl bromide, reactions
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     (Diphenyl) methyleneaminoacetonitrile
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     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reactant in preparation of amide fungicide)
              THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
RE
(1) Agrevo Uk Ltd; WO 9907687 A 1999 HCAPLUS
(2) Ash, M; US 4423222 A 1983 HCAPLUS
(3) Bayer Ag; EP 0334138 A 1989 HCAPLUS
(4) Bayer Ag; WO 9708135 A 1997 HCAPLUS
(5) Dainippon; JP 08-208615 A 1996 HCAPLUS
(6) Mitsubishi; JP 07-173139 A 1995 HCAPLUS
(7) Mitsubishi Chem Corp; EP 0726266 A 1996 HCAPLUS
(8) Mitsubishi Chem Ind; EP 0329020 A 1989 HCAPLUS
(9) Moloney, B; WO 9942447 A 1999 HCAPLUS
(10) Takeda Chemical Industries Ltd; EP 0404190 A 1990 HCAPLUS
(11) Tokuyama, S; JP 64-003162 A 1989 HCAPLUS
(12) Torba, F; US 3609158 A 1971 HCAPLUS
     326476-33-9P 326476-72-6P
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RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological

study); PREP (Preparation); USES (Uses)
 (preparation as fungicide)

RN 326476-33-9 HCAPLUS

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-3-butenyl]- (9CI) (CA INDEX NAME)

RN 326476-72-6 HCAPLUS

CN Benzenecarboximidamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-N'-hydroxy- (9CI) (CA INDEX NAME)

$$C1$$
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 $C1$
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L81 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:549257 HCAPLUS

DN 131:170272

ED Entered STN: 31 Aug 1999

TI 2-Pyridylmethylamine derivatives useful as fungicides

IN Moloney, Brian Anthony; Hardy, David; Saville-Stones, Elizabeth Anne

PA Agrevo UK Limited, UK

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D213-61

ICS C07D213-26; C07D401-12; C07D213-85; C07D213-65; A01N043-40

CC 27-16 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 5

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	SI 20356	C 20010430	SI 1999-20016	19990216 <

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CLASS
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OS
     MARPAT 131:170272
GI
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AB Title compds. such as I (R = 2-CF3, 3-Br, 4-Cl) were prepared as agricultural fungicides. Thus, 0.35 g [3-chloro-5-(trifluoromethyl)-2-pyridyl]methylamine and 0.39 g 2-(trifluoromethyl)benzoyl chloride reacted in dry ether in the presence of 0.27 mL Et3N to give I (R = 2-CF3). The products were tested at 500 ppm (w/v) against late blight, vine downy mildew, wheat powdery mildew, rice blast, glume blotch, and gray mold.

ST pyridylmethylamine deriv prepn fungicidal activity

TH Fungicides

(agrochem.; 2-pyridylmethylamine derivs.) 239109-97-8P 239109-98-9P 239109-99-0P 239109-96-7P IT 239109-95-6P 239110-04-4P 239110-02-2P 239110-03-3P 239110-00**-**0P 239110-01-1P 239110-07-7P 239110-09-9P 239110-08-8P 239110-06-6P 239110-05-5P 239110-14-6P 239110-13-5P 239110-11-3P 239110-12-4P 239110-10-2P 239110-17-9P 239110-19-1P 239110-16-8P 239110-15-7P 239110-24-8P 239110-25-9P 239110-22-6P 239110-23-7P 239110-21-5P 239110-29-3P 239110-30-6P 239110-28-2P 239110-26-0P 239110-27-1P 239110-33-9P 239110-34-0P 239110-35-1P 239110-32-8P 239110-31-7P 239110-37-3P 239110-38-4P 239110-39-5P 239110-40-8P 239110-36-2P 239110-41-9P 239110-43-1P 239110-44-2P 239110-45-3P 239110-42-0P 239110-50-0P 239110-46-4P 239110-47-5P 239110-48-6P 239110-49-7P 239110-55-5P 239110-53-3P 239110-54-4P 239110-51-1P 239110-52-2P 239110-58-8P **239110-59-9P** 239110-56-6P 239110-57-7P 239110-64-6P 239110-62-4P 239110-63-5P 239110-60-2P 239110-61-3P 239110-69-1P 239110-67-9P 239110-68-0P 239110-65-7P 239110-66-8P 239110-74-8P 239110-70-4P 239110-71-5P 239110-72-6P 239110-73-7P 239110-78-2P 239110-75**-**9P 239110-76-0P 239110-77-1P

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RL: BAC (Biological activity or effector, except adverse); BSU (Biological
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study); PREP (Preparation)
   (fungicidal 2-pyridylmethylamine derivs.)
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312-94-7
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RL: RCT (Reactant); RACT (Reactant or reagent)
   (fungicidal 2-pyridylmethylamine derivs.)
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IT

IT

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(fungicidal 2-pyridylmethylamine derivs.)

RE.CNT THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) Bayer AG; DE 2417763 A 1975 HCAPLUS
- (2) Fujisawa Pharmaceutical Co; EP 0356234 A 1990 HCAPLUS
- (3) Hoechst Schering Agrevo GMBH; DE 4434637 A 1996 HCAPLUS
- (4) Shell Agrar GMBH & Co KG; EP 0262393 A 1988 HCAPLUS

239110-15-7P 239110-59-9P 239110-79-3P 239110-81-7P 239111-79-6P 239111-83-2P 239112-12-0P

> RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(fungicidal 2-pyridylmethylamine derivs.)

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Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-CN pyridinyl]methyl] - (9CI) (CA INDEX NAME)

239110-59-9 HCAPLUS RN

Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-CN pyridinyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)

239110-79-3 HCAPLUS RN

Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-CN phenylethyl] - (9CI) (CA INDEX NAME)

RN239110-81-7 HCAPLUS

Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-CN pyridinyl]ethyl]- (9CI) (CA INDEX NAME)

RN 239111-79-6 HCAPLUS

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]propyl]- (9CI) (CA INDEX NAME)

RN 239111-83-2 HCAPLUS

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]butyl]- (9CI) (CA INDEX NAME)

RN 239112-12-0 HCAPLUS

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylpropyl]- (9CI) (CA INDEX NAME)

=> fil uspatall

FILE 'USPATFULL' ENTERED AT 09:57:01 ON 24 AUG 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 09:57:01 ON 24 AUG 2004 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs hitstr tot

L83 ANSWER 1 OF 3 USPATFULL on STN

AN 2003:268224 USPATFULL

TI Fungicides

IN Cooke, Tracey, St. Albans, UNITED KINGDOM

Ekwuru, Tennyson, Lyon Cedex, FRANCE
Hardy, David, Cambridge, UNITED KINGDOM
Millward, Peter, Cambridge, UNITED KINGDOM
Moloney, Brian, Oxon, UNITED KINGDOM
Pettinger, Andrew, Lyons, FRANCE
Thomas, Peter Stanley, Cambridge, UNITED KINGDOM

Turner, Richard Michael, Cambridge, UNITED KINGDOM

PA Bayer Cropscience GmbH, GERMANY, FEDERAL REPUBLIC OF (non-U.S.

corporation)

PI US 6630495 B1 20031007

WO 2001011966 20010222

AI US 2002-49981 20020722 (10)

WO 2000-EP8269 20000811

PRAI GB 1999-19588 19990818 <--

DT Utility FS GRANTED

EXNAM Primary Examiner: Davis, Zinna Northington

LREP Ostrolenk, Faber, Gerb & Soffen, LLP

CLMN Number of Claims: 3 ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 1026

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds of formula (I) or (II): ##STR1##

or salts therefor are used as phytopathogenic fungicides wherein the various radicals and substitutents are as defined in the description. Pesticidal compositions contain these compounds together with an agriculturally acceptable diluent or carrier. The compounds and compositions are applied in methods for combating pests.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 326476-33-9P 326476-72-6P

(preparation as fungicide)

RN 326476-33-9 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-3-butenyl]- (9CI) (CA INDEX NAME)

RN 326476-72-6 USPATFULL

CN Benzenecarboximidamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-N'-hydroxy- (9CI) (CA INDEX NAME)

$$C1$$
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 CH_2
 $N-CH_2$
 CI
 CI
 CI

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L83 ANSWER 2 OF 3 USPATFULL on STN
ΑN
       2003:244996 USPATFULL
ΤI
       2-pyridylmethylamine derivatives useful as fungicides
       Moloney, Brian Anthony, Essex, UNITED KINGDOM
IN
       Hardy, David, Essex, UNITED KINGDOM
       Saville-Stones, Elizabeth Anne, Essex, UNITED KINGDOM
       Aventis CropScience UK Limited (non-U.S. corporation)
PA
PΙ
       US 2003171410
                          A1
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DT
       Utility
FS
       APPLICATION
       OSTROLENK FABER GERB & SOFFEN, 1180 AVENUE OF THE AMERICAS, NEW YORK,
LREP
       NY, 100368403
       Number of Claims: 6
CLMN
ECL
       Exemplary Claim: 1
DRWN
       No Drawings
LN.CNT 910
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       Compounds of formula (I) and salts thereof as phytopathogenic fungicides
AB
       wherein A.sup.1 is substituted 2-pyridyl; A.sup.2 is optionally
       substituted phenyl; L is -- (C.dbd.O) --, -- SO.sub.2-- or -- (C.dbd.S) --;
       R.sup.1 is hydrogen, optionally substituted alkyl or acyl; and R.sup.2
       is hydrogen or optionally substituted alkyl are useful phytopathogenic
       fungicides.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 239110-15-7P 239110-59-9P 239110-79-3P
      239110-81-7P 239111-79-6P 239111-83-2P
      239112-12-0P
        (fungicidal 2-pyridylmethylamine derivs.)
RN
     239110-15-7 USPATFULL
     Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-
CN
       pyridinyl]methyl] - (9CI) (CA INDEX NAME)
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$$\begin{array}{c|c}
C1 & C1 \\
C-NH-CH_2 & C1 \\
C1 & CF_3
\end{array}$$

239110-59-9 USPATFULL RN

CN Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2pyridinyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)

239110-79-3 USPATFULL RN

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-phenylethyl]- (9CI) (CA INDEX NAME)

RN 239110-81-7 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]ethyl]- (9CI) (CA INDEX NAME)

RN 239111-79-6 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]propyl]- (9CI) (CA INDEX NAME)

RN 239111-83-2 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]butyl]- (9CI) (CA INDEX NAME)

RN 239112-12-0 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylpropyl]- (9CI) (CA INDEX NAME)

```
L83
     ANSWER 3 OF 3 USPATFULL on STN
AN
       2003:6922 USPATFULL
TI
       2-pyridylmethylamine derivatives useful as fungicides
IN
       Moloney, Brian Anthony, Essex, UNITED KINGDOM
       Hardy, David, Essex, UNITED KINGDOM
       Saville-Stones, Elizabeth Anne, Essex, UNITED KINGDOM
       Aventis CropScience UK Limited, UNITED KINGDOM (non-U.S. corporation)
PA
ΡI
       US 6503933
                          В1
                               20030107
       WO 9942447 19990826
AΤ
       US 2000-622651
                                20000921 (9)
       WO 1999-GB304
                                19990216
PRAI
       GB 1998-3413
                           19980219
                                                                      <---
       GB 1998-13998
                           19980630
                                                                      <--
       GB 1998-17353
                           19980811
       Utility
DT
FS
       GRANTED
       Primary Examiner: Rotman, Alan L.; Assistant Examiner: Robinson, Binta
EXNAM
LREP
       Ostrolenk, Faber, Gerb & Soffen, LLP
CLMN
       Number of Claims: 9
ECL
       Exemplary Claim: 1
DRWN
       0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 772
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       Compounds of formula (I) and salts thereof as phytopathogenic fungicides
AB
       wherein A.sup.1 is substituted 2-pyridyl; A.sup.2 is optionally
       substituted phenyl; L is -- (C.dbd.O) --, -- SO.sub.2-- or -- (C.dbd.S) --;
       R.sup.1 is hydrogen, optionally substituted alkyl or acyl; and R.sup.2
       is hydrogen or optionally substituted alkyl are useful phytopathogenic
       fungicides. ##STR1##
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 239110-15-7P 239110-59-9P 239110-79-3P
      239110-81-7P 239111-79-6P 239111-83-2P
      239112-12-0P
        (fungicidal 2-pyridylmethylamine derivs.)
RN
     239110-15-7 USPATFULL
     Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-
CN
       pyridinyl]methyl] - (9CI) (CA INDEX NAME)
```

$$\begin{array}{c|c}
C1 & O & C1 \\
C-NH-CH_2 & N & CF_3
\end{array}$$

RN 239110-59-9 USPATFULL

CN Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)

RN 239110-79-3 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-phenylethyl]- (9CI) (CA INDEX NAME)

RN 239110-81-7 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]ethyl]- (9CI) (CA INDEX NAME)

RN 239111-79-6 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]propyl]- (9CI) (CA INDEX NAME)

RN 239111-83-2 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]butyl]- (9CI) (CA INDEX NAME)

RN 239112-12-0 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylpropyl]- (9CI) (CA INDEX NAME)

=> fil reg

FILE 'REGISTRY' ENTERED AT 09:57:09 ON 24 AUG 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3 DICTIONARY FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> d ide can tot 178

L78 ANSWER 1 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 326808-53-1 REGISTRY

CN Benzeneacetonitrile, 2,6-dichloro- α -[[[3-chloro-5-(trifluoromethy1)-2-pyridinyl]oxy]imino]-, (α Z)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C14 H5 Cl3 F3 N3 O

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 2 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 326808-52-0 REGISTRY

CN Benzeneacetonitrile, 2,6-dichloro- α -[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]imino]-, (α E)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C14 H5 Cl3 F3 N3 O

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 3 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 326808-21-3 REGISTRY

CN Benzaldehyde, 2,6-dichloro-, O-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxime (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C13 H6 Cl3 F3 N2 O

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 4 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 326808-10-0 REGISTRY

CN Urea, N-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-N'-(2,6-dichlorophenyl)(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C13 H7 Cl3 F3 N3 O

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 5 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 326808-09-7 REGISTRY

CN Pyridine, 3-chloro-2-[[(2,6-dichlorophenyl)methoxy]methyl]-5-

(trifluoromethyl) - (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C14 H9 Cl3 F3 N O

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

$$C1$$
 $C1$
 CH_2-O-CH_2
 $C1$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 6 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 326807-94-7 REGISTRY

CN 2-Pyridinecarboxamide, 3-chloro-N-[(2,6-dichlorophenyl)methyl]-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C14 H8 Cl3 F3 N2 O

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

$$\begin{array}{c|c} F_3C & C1 \\ \hline N & 0 \\ \hline C-NH-CH_2 \\ \hline \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 7 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 326807-73-2 REGISTRY

CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethy1)-2-pyridiny1]-2-methylhydrazide (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C14 H9 Cl3 F3 N3 O

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 8 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 326807-66-3 REGISTRY

CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C13 H7 C13 F3 N3 O

SR CA

LC STN Files: CA, CAPLUS, CHEMCATS

DT.CA CAplus document type: Patent

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 9 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 326476-72-6 REGISTRY

CN Benzenecarboximidamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-N'-hydroxy- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C14 H9 C13 F3 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:174247

L78 ANSWER 10 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 326476-33-9 REGISTRY

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethy1)-2-pyridiny1]-3-buteny1]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H12 C13 F3 N2 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES

(Uses)

$$\begin{array}{c|c} CH_2-CH \longrightarrow CH_2 \\ \hline C1 & C1 \\ \hline C1$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:174247

L78 ANSWER 11 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 239112-12-0 REGISTRY

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-

methylpropyl] - (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H14 Cl3 F3 N2 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:170272

L78 ANSWER 12 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 239111-83-2 REGISTRY

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-

pyridinyl]butyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H14 Cl3 F3 N2 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:170272

L78 ANSWER 13 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 239111-79-6 REGISTRY

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]propyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C16 H12 Cl3 F3 N2 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:170272

L78 ANSWER 14 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 239110-81-7 REGISTRY

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]ethyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C15 H10 Cl3 F3 N2 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:170272

L78 ANSWER 15 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 239110-79-3 REGISTRY

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-phenylethyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C21 H14 Cl3 F3 N2 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:170272

L78 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 239110-59-9 REGISTRY

CN Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C15 H10 Cl3 F3 N2 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:170272

L78 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 239110-15-7 REGISTRY

CN Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethy1)-2pyridinyl]methyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C14 H8 Cl3 F3 N2 O

CI COM

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

$$\begin{array}{c|c} C1 & O & C1 \\ \hline \\ C-NH-CH_2 & \\ \hline \\ C1 & \\ \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:350011

REFERENCE 2: 138:299225

REFERENCE 3: 137:212299

REFERENCE 4: 137:212298

REFERENCE 5: 136:200109

REFERENCE 6: 131:170272